

Messages



Messages

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 53.

Third Edition (March 2002)

This is a major revision of SA22-7523-01.

This edition applies to Version 1 Release 3 of z/OS (5647-A01) and all subsequent releases and modifications until otherwise indicated in new editions.

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About This Book

This book contains messages and their routing and descriptor codes for the Integrated Cryptographic Service Facility (ICSF), program number 5694-A01.

z/OS MVS System Codes, SA22-7626 describes the system completion (abnormal end) code X'18F' for ICSF.

Who Should Use This Book

This book is for users who receive messages that have a prefix of *CSFxnnnn*.

This book is also for programmers who intend to alter codes that IBM programming assigns to messages.

How To Use This Book

This book contains ICSF messages with their prefixes organized in alphanumeric order.

- Chapter 2, "CSFBnnnn Messages (Build Control Statement Processing)"
- Chapter 3, "CSFCnnnn Messages (Cryptographic Key Data Set Processing)"
- · Chapter 4, "CSFEnnnn Messages (Exit Router)"
- · Chapter 5, "CSFGnnnn Messages (Key Generator Utility Processing)"
- Chapter 6, "CSFInnnn Messages (Component Trace)"
- Chapter 7, "CSFMnnnn Messages (ICSF Address Space)"
- Chapter 8, "CSFOnnnn Messages (Installation Options Parameter Processing)"
- · Chapter 9, "CSFPnnnn Messages (Parse)"
- Chapter 10, "CSFVnnnn Messages (CKDS Conversion Processing)"
- Chapter 11, "CSFYnnnn Messages (I/O Errors)"

Chapter 12, "ICSF Routing and Descriptor Codes" on page 45 describes the routing and descriptor codes for ICSF messages.

Where To Find More Information

For information about the referenced ICSF books, see Figure 1 on page vi.

Tasks Tasks Evaluating Administrating z/OS ICSF z/OS ICSF Application Programming **Planning** Overview Messages Diagnosis SA22-7519 SA22-7523 Operating Customizing z/OS ICSF Administrating z/OS ICSF Diagnosis System Administrator's Programmer's Guide Installing Guide SA22-7520 SA22-7521 Operating Administrating Application z/OS ISPF Panels **ICSF** Programming (Includes Help) Application Programmer's Guide SA22-7522

Optional Features



Available with the Trusted Key Entry Workstation (TKE Version 3 or higher) IBM Online Library: z/OS Collection Kit SK3T-4269 The ICSF Library and the Trusted Key Entry Workstation User's Guide are included on the IBM Online Library: z/OS Collection Kit SK3T-4269

Figure 1. The ICSF Library

Other books that are referenced in this book are:

- MVS/ESA Data Administration: Macro Instruction Reference, SC26-4506-02
- MVS/DFP Managing VSAM Data Sets, SC26-4568
- PR/SM Planning Guide, SB10-7032
- Support Element Operations Guide, SC28-6802
- z/OS MVS System Codes, SA22-7626
- z/OS MVS Programming: Authorized Assembler Services Reference ENF-IXG, SA22-7610
- z/OS MVS IPCS User's Guide, SA22-7596
- z/OS MVS Diagnosis: Reference, GA22-7588

Using LookAt to look up message explanations

LookAt is an online facility that allows you to look up explanations for z/OS messages, system abends, and some codes. Using LookAt to find information is faster than a conventional search because in most cases LookAt goes directly to the message explanation.

You can access LookAt from the Internet at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/lookat.html

or from anywhere in z/OS where you can access a TSO command line (for example, TSO prompt, ISPF, z/OS UNIX System Services running OMVS).

To find a message explanation on the Internet, go to the LookAt Web site and simply enter the message identifier (for example, IAT1836 or IAT*). You can select a specific release to narrow your search. You can also download code from the *z/OS* Collection, SK3T-4269 and the LookAt Web site so you can access LookAt from a PalmPilot (Palm VIIx suggested).

To use LookAt as a TSO command, you must have LookAt installed on your host system. You can obtain the LookAt code for TSO from a disk on your z/OS Collection, SK3T-4269 or from the LookAt Web site. To obtain the code from the LookAt Web site, do the following:

- Go to http://www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/lookat.html.
- Click the News button.
- 3. Scroll to Download LookAt Code for TSO and VM.
- 4. Click the ftp link, which will take you to a list of operating systems. Select the appropriate operating system. Then select the appropriate release.
- 5. Find the **lookat.me** file and follow its detailed instructions.

To find a message explanation from a TSO command line, simply enter: lookat message-id. LookAt will display the message explanation for the message requested.

Note: Some messages have information in more than one book. For example, IEC192I has routing and descriptor codes listed in z/OS MVS Routing and Descriptor Codes. For such messages, LookAt prompts you to choose which book to open.

Accessing licensed books on the Web

z/OS licensed documentation in PDF format is available on the Internet at the IBM Resource Link Web site at:

http://www.ibm.com/servers/resourcelink

Licensed books are available only to customers with a z/OS license. Access to these books requires an IBM Resource Link Web userid and password, and a key code. With your z/OS order you received a memo that includes this key code.

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- 3. Click on Access Profile.
- 4. Click on Request Access to Licensed books.
- 5. Supply your key code where requested and click on the **Submit** button.

If you supplied the correct key code you will receive confirmation that your request is being processed. After your request is processed you will receive an e-mail confirmation.

Note: You cannot access the z/OS licensed books unless you have registered for access to them and received an e-mail confirmation informing you that your request has been processed.

To access the licensed books:

- 1. Log on to Resource Link using your Resource Link userid and password.
- 2. Click on Library.
- 3. Click on zSeries.
- 4. Click on Software.
- 5. Click on z/OS.
- 6. Access the licensed book by selecting the appropriate element.

Do You Have Problems, Comments, or Suggestions?

Your suggestions and ideas can contribute to the quality and the usability of this book. If you have problems using this book, or if you have suggestions for improving it, complete and mail the Reader's Comment Form found at the back of the book.

Summary of changes

Summary of changes for SA22-7523-02 z/OS Version 1 Release 3

The book contains information previously presented in *z/OS ICSF Messages*, SA22-7523-01, which supports *z/OS* Version 1 Release 2.

New information

This revision includes the following new messages:

- CSFM011I
- CSFM522E

An appendix with z/OS product accessibility information has been added.

Changed information

This revision includes changes to the following message:

CSFM401I

Deleted information

The following messages have been deleted:

CSFM502E - replaced by new message CSFM522E.

This book contains terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this book—for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our books.

Summary of changes for SA22-7523-01 z/OS Version 1 Release 2

The book contains information previously presented in *z/OS ICSF Messages*, SA22-7523-00, which supports *z/OS* Version 1 Release 1.

New information

This revision includes the following new messages:

- CSFM120E
- CSFM409E
- CSFM410E
- CSFM411I
- CSFM412I

- CSFM413E
- CSFM414I

Changed information

This revision includes changes to the following messages:

- CSFC0016
- CSFC0026
- CSFC0036
- CSFC0064
- CSFC0116
- CSFC0156
- CSFC0236

This book contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

Chapter 1. Introduction

This book describes ICSF messages and their appropriate responses. ICSF writes messages to data sets and consoles. You can view some messages immediately as they appear on the console and you can view messages in data sets.

ICSF writes messages to separate data sets:

- When the ICSF main task ends abnormally, ICSF initialization error messages appear in the CSFLIST data set. These messages relate to running ICSF, input/output errors, and processing parameters.
 - The ICSF startup procedure defines the CSFLIST data set. For more information about defining the CSFLIST data set, see *z/OS ICSF System Programmer's Guide*.
- KGUP processing messages appear in the KGUP diagnostic data set, CSFDIAG.
 For information about defining the CSFDIAG data set, see z/OS ICSF System Programmer's Guide.
- Conversion processing messages appear in the conversion program activity report data set, CSFVRPT.
 - For information about defining the CSFVRPT data set, see *z/OS ICSF System Programmer's Guide*.

ICSF mainline also issues certain messages to the security console and z/OS console. Messages with a routing code of 9 appear on the security console. Messages with a routing code of 1 appear on the console. If a message does not have a routing code, it appears in the CSFLIST data set. Chapter 12, "ICSF Routing and Descriptor Codes" on page 45 describes the routing and descriptor codes for the ICSF mainline messages.

Chapter 2. CSFBnnnn Messages (Build Control Statement Processing)

This section describes messages that ICSF issues while processing the installation options data set or key generator utility program (KGUP) control statements.

CSFB0016 END OF INPUT RECORDS REACHED WHILE IN CONTINUATION STATEMENT.

Explanation: ICSF reached the end of the input file when it expected a continuation to another line.

System Action: Processing ends.

User Response: Do the following:

- Check to see if there were physical records missing from the end of the input file or if a continuation character was misplaced in a previous record.
- · Check for stray commas.

CSFB0026 STATEMENT EXCEEDS MAXIMUM LENGTH ALLOWED.

Explanation: The length of the logical record being built exceeds the maximum allowable by the application. The statement that contains the error precedes this message.

System Action: Processing ends.

User Response: Do the following:

- Check to see if a continuation character was entered incorrectly.
- Check application guidelines to find out the maximum logical record length allowable.
- · Check for stray commas.

CSFB0034

COMMENT ON RECORD FOR STATEMENT NOT CLOSED. PROCESSING CONTINUES WITH NEXT STATEMENT.

Explanation: A comment was opened (/*) but not closed (*/) on the same physical line.

System Action: Processing of the statement ends. Normal processing of the input file continues.

User Response: Check to see if the close comment delimiter (*/) is specified after column 71. Specify the close comment delimiter on the statement.

CSFB0044 COLUMN 72 NOT BLANK.

Explanation: Column 72 of the input control statement is not blank.

System Action: ICSF ended processing for this control statement. Normal processing of the input file continues.

User Response: Ensure that column 72 is blank.

CSFB0056 INPUT FILE EMPTY.

Explanation: The control statement input file is empty.

System Action: Processing ends.

User Response: Ensure that the input file contains

statements for processing.

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Chapter 3. CSFCnnnn Messages (Cryptographic Key Data Set Processing)

This section describes messages that ICSF issues while processing the cryptographic key data set (CKDS) or public key data set (PKDS).

CSFC0016 ABEND OCCURRED IN routine. PSW = psw, COMPLETION CODE = code.

Explanation: The key data set access module *routine* ended abnormally. The variable *psw* is the PSW at the time of the abnormal ending, and *code* is the system completion code.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the system completion code.

Problem Determination: In addition to the action that is specified for the system programmer, the following actions are necessary:

- Make sure that the failing job step includes a SYSUDUMP DD statement.
- Run the EREP service aid for detailed reports of the system's error activity. Save the output.

CSFC0026 Routine UNABLE TO ESTABLISH AN ESTAE.

Explanation: The key data set access module that is indicated by *routine* could not establish an ESTAE environment.

While the conversion process is running, the system issues message CSFV0026 with a return code of 12 and a reason code of 6028.

System Action: Processing ends.

User Response: Run the job again. If it still fails, contact your system programmer.

System Programmer Response: Contact the IBM Support Center.

CSFC0036 ALLOCATE FAILED FOR DSNAME dsname, RETURN CODE = retcode, REASON CODE = rsncode.

Explanation: The key data set was being used by another user. In the message, *dsname* represents the data set name of the key data set. The failed dynamic allocation (SVC99) call returned the *retcode* and *rsncode*.

While the conversion process is running, the system issues message CSFV0026 with a return code of 12 and a reason code of 6032.

System Action: Processing ends.

User Response: Wait until the CKDS is available.

CSFC0046 UNABLE TO OPEN KEY DATA SET dsname.

Explanation: The key data set, *dsname*, could not be opened

A VSAM error message that further identifies the problem accompanies this message.

System Action: Processing ends.

User Response: Correct the problem that is identified by the VSAM error message. If you cannot resolve the problem, inform the system programmer.

System Programmer Response: Correct the problem that is identified by the VSAM error message.

CSFC0053 ROUTINE routine FAILED. RETURN CODE = retcode, REASON CODE = rsncode.

Explanation: A cryptographic service routine (*routine*) returned with an unexpected return code (*retcode*) and reason code (*rsncode*) combination.

While the conversion process is running, the system issues message CSFV0026 with a return code of 12 and a reason code of 6044.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the return and reason codes. If you cannot resolve the problem, contact the IBM Support Center.

CSFC0064 UNABLE TO CLOSE KEY DATA SET dsname.

Explanation: The key data set, *dsname*, could not be closed.

A VSAM error message that further identifies the problem accompanies this message.

System Action: Depending on the function that ICSF is performing, normal processing either continues or ends.

User Response: If the function ICSF is performing is not repetitive, no action is required.

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If the problem persists, contact your system programmer.

System Programmer Response: Contact the IBM Support Center.

CSFC0072 **UNALLOCATE FAILED FOR DSNAME** dsname, RETURN CODE = retcode, **REASON CODE** = *rsncode*.

Explanation: The CKDS access module could not deallocate the CKDS identified by dsname. The failed dynamic allocation (SVC99) call returned the retcode and rsncode.

While the conversion process is running, the system issues message CSFV0026 with a return code of 12 and a reason code of 6036.

System Action: Depending on the function ICSF is performed, normal processing continues or ends.

User Response: If the function ICSF is performing is not repetitive, no action is needed.

If the problem persists, contact your system programmer.

System Programmer Response: Contact the IBM Support Center.

CSFC0086 **SYSTEM** syskey **RECORD NOT FOUND** IN CKT.

Explanation: Either a system record was not found in the in-storage CKDS table (CKT) or the system MAC generation (MACGEN) key could not be found. Syskey is either CONTROL or MACGEN. This error can only occur when a new CKDS is being created from the in-storage image during CKDS creation, re-encipherment, or conversion.

While the conversion process is running, the system issues message CSFV0026 followed by a return code of 12 and a reason code of 6048.

System Action: Processing ends.

User Response: Ensure that the supplied CKDS being processed is valid. If you cannot use the CKDS, contact your system programmer.

System Programmer Response: Either correct the CKDS to be processed or use another CKDS.

CSFC0096 **UNABLE TO UPDATE THE CKDS** CONTROL RECORD.

Explanation: An I/O error occurred in writing the control record to the CKDS.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Ensure that the IDCAMS services can read the CKDS. If the problem persists, use a backup CKDS and rerun the job.

CSFC0106 **UNABLE TO RETRIEVE SYSTEM** keytype RECORD.

Explanation: A system record of *keytype* is not in the

CKDS.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Ensure that the CKDS has system records using IDCAMS services. Either add the system records or use another CKDS and rerun the job.

CSFC0116 **CONTROL BLOCK VALIDATION ERROR. RETURN CODE** = retcode, **REASON CODE** = rsncode.

Explanation: The key data set access control block (CACB) is incorrect. The CACB is an ICSF internal control block. In the message, retcode indicates the return code, and rsncode indicates the reason code.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Contact the IBM Support Center.

CSFC0124 Label-type BYPASSED PER THE exit-id **EXIT** routine.

Explanation: An installation exit bypassed a record in the CKDS. Label-type is the CKDS VSAM key value for the bypassed CKDS record, exit-id is the installation options exit identifier, and routine is the installation exit module name.

System Action: The conversion process bypassed the Label-type record, but continued the normal processing of the other records in the file.

User Response: Ensure that the conversion process bypassed the correct record.

CSFC0136 Exit-id **EXIT** routine **ABENDED**. PROCESSING TERMINATED.

Explanation: The installation exit failed, and the conversion program ended processing as requested by the exit. The exit identifier is exit-id, and the installation exit module name is routine.

If the single-record, read-write installation exit (exit-id is CSFSRRW) ends abnormally while the conversion process is running, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 6020. If the conversion installation exit (exit-id is CSFCONV) ends abnormally ends, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 9084.

System Action: Processing ends.

System Programmer Response: Follow local procedures for errors that are detected in the installation

exit.

CSFC0142 Exit-id EXIT routine ABENDED.

PROCESSING CONTINUES WITHOUT INVOKING EXIT.

Explanation: The installation exit failed, and processing continued as requested by the exit. The exit identifier is *exit-id*, and the installation exit module name is *routine*.

System Action: The conversion process does not call the installation exit module from the point of failure.

System Programmer Response: Follow local procedures for errors that are detected in the installation exit.

CSFC0156 NON-EMPTY DATA SET dsname CANNOT BE USED AS NEW CKDS.

Explanation: The output key data set that is identified by *dsname* must be empty.

System Action: Processing ends.

User Response: Use an empty output CKDS.

CSFC0166 Exit-id EXIT routine CANNOT BE LOADED. RETURN CODE = retcode, REASON CODE = rsncode.

Explanation: The load module that is identified by *routine* cannot be loaded for the *exit-id* exit, where the return code and reason code are one of the following combinations:

Return code: 04

Reason Code Meaning

04 ICSF could not find the installation exit

module.

Return code: 08

Reason Code Meaning

08 ICSF found the installation exit

module, but could not load it.

If the conversion process cannot load the single-record, read-write installation exit (*exit-id* is CSFSRRW), ICSF issues message CSFV0026 with a return code of 12 and a reason code of 6040. If the conversion process cannot load the conversion installation exit (*exit-id* is CSFCONV), ICSF issues message CSFV0026 with a return code of 12 and a reason code of 9020.

System Action: Processing ends.

System Programmer Response: Ensure that an

installation exit module that can be loaded exists in a library directed to by the JCL or link list.

CSFC0172 Exit-id EXIT PROCESSING NOT IN EFFECT.

Explanation: The required installation exit, *exit-id*, could not be loaded.

System Action: Normal processing continues without calling the installation exit.

System Programmer Response: Follow local procedures for errors that are detected in the installation exit.

CSFC0186 RETURN CODE retcode FROM exit-id EXIT routine NOT VALID.

Explanation: The installation exit returned a return code that was not valid. *Exit-id* is the exit identifier, and *routine* is the associated load module name.

If the single-record, read-write installation exit (*exit-id* is CSFSRRW) is called during the conversion process, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 6012. If the conversion installation exit (*exit-id* is CSFCONV) is called, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 9076.

System Action: Processing ends.

System Programmer Response: Follow local procedures for errors that are detected in the installation exit.

CSFC0196 CONTROL RECORD NOT FOUND ON CKDS dsname.

Explanation: The conversion process did not find the control record in the CKDS identified by *dsname*.

System Action: Processing ends.

User Response: Use a CKDS that has a control

record.

CSFC0206 Exit-id EXIT routine ABENDED. ICSF SHOULD BE TERMINATED.

Explanation: The installation exit load module, *routine*, failed. The failure option for the *exit-id* exit specified that ICSF should also be ended.

If the single-record, read-write installation exit (*exit-id* is CSFSRRW) is called during the conversion process, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 6024. If the conversion installation exit (*exit-id* is CSFCONV) is called, ICSF issues message CSFV0026 with a return code of 12 and a reason code of 9080.

System Action: Processing ends.

System Programmer Response: Follow local procedures for errors that are detected in the installation exit.

callable service.

CSFC0216 **UNABLE TO FIND RECORD** *labelname* FOR action ON DSNAME dsname.

Explanation: A record could not be found. The *action* is either READ or DELETE. The dsname is either CKDS or PKDS.

System Action: Processing ends.

User Response: Make sure that you specify the labelname that exists for the PKDS/CKDS.

CSFC0236 ATTEMPTED TO READ FROM EMPTY KEY DATA SET ddname

Explanation: An empty key data set, dsname, was specified for KGUP, a conversion program, or a refresh request. A minimum requirement is an initialized key data set.

System Action: Processing ends.

User Response: Make sure that you are using a fully initialized CKDS before rerunning the job.

CSFC0246 **UNABLE TO READ CKDS CONTROL RECORD FOR** dsname

Explanation: An I/O error occurred trying to read the header record from the specified CKDS.

System Action: Conversion processing ends.

User Response: Verify that the specified CKDS is an ICSF Release 1 (HCRP100) CKDS.

CKDS NEARLY FULL. REFRESH CSFC0254 NEEDED.

Explanation: The space in the CKDS reserved for Key Record Create is 80% full.

System Action: Processing continues.

User Response: Consider requesting the security administrator to do a REFRESH of the CKDS. This restores the full capacity in the CKDS to support the Key Record Create callable service.

CSFC0266 CKDS FULL. NO DYNAMIC CREATES ALLOWED.

Explanation: The space in the CKDS that is reserved for Key Record Create is full.

System Action: Key Record Create callable service

User Response: Request security administrator to do a REFRESH of the CKDS. This restores the full capacity in the CKDS to support the Key Record Create

Chapter 4. CSFEnnnn Messages (Exit Router)

This section describes messages that ICSF exit router issues.

CSFE001I INSTALLATION EXIT exit-name NOT

FOUND.

Explanation: This is an informational message only.

System Action: Processing continues.

System Programmer Response: Determine if the exit that is named in *exit-name* is valid. Ensure that the name of the installation options data set matches the name in the module. If necessary, restart ICSF.

CSFE002A REQUIRED INSTALLATION EXIT

exit-name NOT FOUND.

Explanation: You specified an exit with a FAIL option

for ICSF, and ICSF could not find it.

System Action: ICSF ends.

System Programmer Response: Correct the name of

the exit and restart ICSF.

Chapter 5. CSFGnnnn Messages (Key Generator Utility Processing)

This section describes messages that the key generator utility program (KGUP) issues.

CSFG0002 CRYPTOGRAPHIC KEY GENERATION - END OF JOB. RETURN CODE =

retcode.

Explanation: The key generator utility program completed processing with a return code of *retcode*. The table below lists all known return codes and their meanings.

meanings.	
Return Code	Meaning
00	Successful processing.
04	The key generator utility program encountered warning conditions, but processed all transactions.
08	One or more control statements failed.
12	An error occurred as the key generator utility program was ending. The reason is in the CSFDIAG diagnostic data set.
16	Message queueing failed. The last message cannot be printed.
20	ESTAE macro failure.
24	An abnormal ending occurred in the key generator utility program.
28	ICSF is not active.
36	State of special secure mode on the coprocessor is not the same as the state that is specified in the PARM field of the EXEC JCL statement.
40	Unable to enqueue key generator resources.
44	Unable to run the specified installation exit module with the CSFKGUP exit identifier installation option.
48	EXEC PARM value is not valid. It must be blank, SSM, or NOSSM.
52	Unable to retrieve information from the CALL to the ICSF service routine.
56	Unable to obtain information from the ICSF service routine to issue the ENQ macro.
64	An OPEN error occurred for the CSFVRPT report data set. If you are using a pre-allocated data set, ensure that the record length is correct.

An I/O error occurred for the CSFVRPT report data set. An attempt to CLOSE the data set was tried, so check to see if there are meaningful messages in the data set.

System Action: Processing ends.

User Response: Review the return code and messages. A zero (0) return code indicates successful processing and requires no further analysis. If the return code is greater than zero (0), review the previous diagnostic messages for errors. If errors occurred because of control statements that were not valid, make the necessary corrections and rerun the key generator utility program with the correct statements. When errors occurred from other than those on control statements, contact the system programmer.

System Programmer Response: Investigate previous diagnostic error messages and JCL log messages. If you can correct the error condition, rerun the key generator utility program. For problems that you cannot correct, contact the IBM Support Center.

CSFG0014 SINGLE KEY SUPPLIED WITH TRANSKEY THAT DOES NOT PERMIT SINGLE KEY DECRYPTION.

Explanation: You supplied a single length key, but the TRANSKEY keyword specified an IMPORTER key that does not allow the decryption of a single length key. The key identifier of the CKDS record for the IMPORTER key must have the NOCV flag bit indicator set to 1 in order for a single length key to be decrypted when imported.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Either supply two key values or change the IMPORTER key to one that can be used to decrypt single length keys.

CSFG0024 NOCV SPECIFIED WITH TWO TRANSKEYS.

Explanation: You cannot specify the NOCV keyword with a TRANSKEY keyword that specifies two keys. The key generation utility program does not support the distribution of EXPORTER or IMPORTER keys that have NOCV capability to two sites.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

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User Response: Either remove the NOCV keyword or remove one of the TRANSKEY values and rerun the key generator utility program.

ABEND DURING KEY GENERATION -CSFG0035 **PSW** = *psw*, **COMPLETION CODE** = code.

Explanation: An abnormal ending occurred during key generator utility processing, where psw specifies the PSW at the time of the failure and code indicates the system completion code.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the PSW and the completion code, and any diagnostic messages that may have been issued prior to the abnormal end.

Problem Determination: In addition to the system programmer actions, the following actions are necessary:

- Make sure that the failing job step includes a SYSUDUMP DD statement.
- · Run the EREP service aid for detailed reports of the system's error activity. Save the output.

CSFG0056 CKDS CONTROL RECORD NOT FOUND.

Explanation: KGUP could not find the control record for the CKDS.

System Action: Processing ends.

User Response: Ensure that the CKDS is valid. If you cannot use the CKDS, contact your system programmer.

System Programmer Response: Either correct the CKDS or use another CKDS before running the key generator utility program again.

CSFG0064 CONTROL STATEMENT VERB NOT VALID.

Explanation: The control statement verb was not ADD, UPDATE, DELETE, RENAME or SET.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Supply a valid control statement verb of ADD, UPDATE, DELETE, RENAME, or SET and rerun the key generator utility program.

SYNTAX ERROR IN CONTROL CSFG0074 STATEMENT.

Explanation: A control statement was not valid.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Check the syntax of the control statement. Ensure that you specified the statement keywords and values correctly. For example, check for unpaired delimiters and missing or extraneous commas. Rerun the key generator utility program.

SPECIFIED KEY VALUE IS NOT VALID. CSFG0084

Explanation: The specified value for the KEY keyword was not valid.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Check that the key values that you entered are valid hexadecimal values. The values should contain the characters A through F or the numerals 0 through 9. Rerun the key generator utility program.

CSFG0094 Keyword1 OR keyword2 NOT SPECIFIED.

Explanation: The control statement does not contain a required keyword, where keyword1 and keyword2 are the keywords.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with the required keyword and rerun the key generator utility program.

CSFG0104 Keyword1 AND keyword2 BOTH SPECIFIED.

Explanation: The control statement contains two mutually exclusive keywords, where keyword1 and keyword2 are the keywords.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with one of the keywords and rerun the key generator utility program.

CSFG0124 **RANGE LABEL PREFIXES NOT** EQUAL.

Explanation: The alphabetic prefixes of the starting and ending labels that you specified with the RANGE keyword are not the same.

System Action: Processing ends for this control statement. Normal processing of the input file continues. **User Response:** Update the control statement by specifying equal prefixes for the starting and ending labels. Rerun the key generator utility program.

CSFG0144 END LABEL SUFFIX NOT GREATER THAN START LABEL SUFFIX FOR RANGE.

Explanation: The arithmetic value of the suffix for the ending label must be greater than the arithmetic value of the suffix for the starting label specified with the RANGE keyword.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement so that the numeric value of the ending label suffix is greater than the numeric value of the starting label suffix. Rerun the key generator utility program.

CSFG0164 SAME KEY LABEL VALUES SPECIFIED FOR TRANSKEY.

Explanation: The TRANSKEY keyword specified two equal values for the key labels. Each key must have unique label values.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with unique key label values and rerun the key generator utility program.

CSFG0174 KEY VALUE AND TWO TRANSKEY LABELS SPECIFIED.

Explanation: You specified the KEY keyword and the TRANSKEY keyword with two labels together. Two TRANSKEY values are valid only when generating keys for distribution, so you cannot specify the KEY keyword in this case.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Either delete the key value or the second TRANSKEY label. Rerun the key generator utility program.

CSFG0204 KEY KEYWORD NOT SPECIFIED WITH KEY TYPE = type.

Explanation: When the key type is PINVER or MACVER, the control statement must contain the KEY keyword and its associated values.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with the KEY keyword and either supply the key values or

change the key type. Rerun the key generator utility program.

CSFG0224 keyword SPECIFIED WITH TYPE keytype.

Explanation: There is a mismatch between *keyword* and *keytype*. *Keyword* values can be NOCV, CDMF or DEA. If NOCV is specified, only key types EXPORTER or IMPORTER are allowed. If CDMF or DEA are specified, only key types EXPORTER, IMPORTER, or DATA are allowed.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Make sure that the keyword is valid for the key type. Rerun the key generator utility program.

CSFG0254 ENTRY label type FOUND ON CKDS. verb NOT PERFORMED.

Explanation: A CKDS entry with the key index *label type* was already on the CKDS. The key generator utility program could not perform the action (*verb*).

System Action: KGUP bypassed the entry, but processed other valid labels or types on the control statement.

User Response: Correct the label or key type on the control statement and rerun the key generator utility program.

CSFG0264 ENTRY label type NOT FOUND ON CKDS. verb NOT PERFORMED.

Explanation: A CKDS entry with the key index *label type* was not on the CKDS. KGUP could not perform the (*verb*) action. ICSF issues this message when one of the following conditions occurs:

- An UPDATE, DELETE, or RENAME statement specified a key that did not exist.
- An ADD or UPDATE statement specified a key in the TRANSKEY keyword that did not exist. If you specify the KEY keyword, then the key type of the TRANSKEY will be IMPORTER; otherwise, the key type will be EXPORTER.

System Action: KGUP bypassed the entry, but processed other valid labels or types on the control statement.

User Response: Correct the label or key type on the control statement and rerun the key generator utility program.

IMPORTED KEY DOES NOT HAVE ODD CSFG0272 PARITY.

Explanation: A key with non-odd or mixed parity was imported.

System Action: Processing continues.

User Response: If your installation allows non-odd or mixed parity keys, no action is required.

Because you are importing the key value, you may need to check the key value for accuracy if you expected or require an odd parity key.

CSFG0284 **BOTH TRANSPORT KEYS ARE EXPORTER TYPE WITH NOCV** CAPABILITY.

Explanation: Both of the transport keys that you specified as label values with the TRANSKEY keyword are EXPORTER with the NOCV flag set on in the key identifier. The key generator utility program does not support distribution of a key to two sites that only process keys without control vectors.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Change one of the transport keys to one that is used to export keys with control vectors. Rerun the key generator utility program.

CSFG0293 **ROUTINE** routine **FAILED**. **RETURN CODE** = retcode, **REASON CODE** = rsncode.

Explanation: The cryptographic service routine *routine* returned with a return code of retcode and a reason code of *rsncode*, which is an unexpected combination.

System Action: Depending on the severity of the error that caused the failure, KGUP either continues normal processing of the input control statements or ends processing.

User Response: Contact your system programmer.

System Programmer Response: If possible, correct the error that is indicated by the return code and the reason code combination for the cryptographic services. If you cannot correct error, contact the IBM Support Center.

CSFG0302 STATEMENT NOT PROCESSED.

Explanation: This is the final message for a control statement that is not processed. ICSF issued diagnostic messages prior to this that contain specific information regarding the errors that have occurred.

System Action: Depending on the severity of the error that caused the failure, KGUP either continues normal processing of the input control statements or ends processing.

User Response: Investigate the previous diagnostic error messages.

CSFG0313 STATEMENT PARTIALLY PROCESSED.

Explanation: This is the final message for a control statement that KGUP has partially processed. This condition occurs when there is a mixture of unsuccessful and successful processing for control statements that specify more than one key to be processed; for example, RANGE(x,v) or LABEL(I1,I2,...,In).

System Action: Depending on the severity of the error that caused the failure, KGUP either continues processing of the input control statements or ends processing.

User Response: Investigate the previous diagnostic error messages.

CSFG0321 STATEMENT SUCCESSFULLY PROCESSED.

Explanation: This is the final message for a control statement that is processed completely.

System Action: Normal processing of the input file continues.

User Response: None.

CSFG0385 THE SYSTEM key-type KEY COULD NOT BE RETRIEVED FROM THE CKDS.

Explanation: The KGUP control statement did not supply either the MAC generation (MACGEN) or MAC verification (MACVER) key.

System Action: Processing ends.

Programmer Response: Check if the CKDS is valid. If it is not, you can use the AMS REPRO command to try to add the missing keys from a sequential data set. Otherwise, use a previous CKDS that has the system keys.

CSFG0395 **INSTALLATION EXIT MODULE** REQUIRED BUT NOT AVAILABLE.

Explanation: KGUP requires the installation exit module, but has not found it in any library that is specified in either the link list, or on a JOBLIB or STEPLIB DD JCL statement.

System Action: Processing ends.

System Programmer Response: Link the installation exit module in one of the libraries that are designated in the system link list or in the JOBLIB or STEPLIB DD statement. The library must be APF-authorized. Rerun the key generator utility program.

CSFG0402 INSTALLATION EXIT NOT LOADED.

Explanation: An attempt to load the installation exit failed. You specify the load module name in the EXIT statement with the CSFKGUP exit identifier that is processed during ICSF initialization.

System Action: Processing continues normally without calling the installation exit.

System Programmer Response: If the exit is required, specify a valid one.

CSFG0414 STATEMENT REJECTED BY INSTALLATION EXIT.

Explanation: The KGUP installation exit rejected a control statement. The rejected control statement precedes this message.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

System Programmer Response: Determine if the control statement was rejected because of an error or for other reasons. Follow local procedures for errors that are detected by your installation exit. If necessary, correct the error and rerun the job.

CSFG0425 KEY GENERATOR TERMINATED BY INSTALLATION EXIT.

Explanation: The key generator utility program ended at the request of the installation exit. The control statement KGUP was processing when this error occurred precedes this message in the diagnostic data set.

System Action: Processing ends.

User Response: Determine if processing ended normally, or because the KGUP installation exit encountered an error condition. If necessary, correct any errors in the control statements and rerun the key generator utility program.

CSFG0435 RETURN CODE retcode FROM INSTALLATION EXIT NOT VALID.

Explanation: The key generator utility installation exit returned a return code to the key generator utility program that is not valid. The control statement being processed precedes this message.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Check the installation exit to determine if there are problems in the module. Make any necessary corrections and re-link the installation exit.

CSFG0445 INSTALLATION EXIT PREPROCESSING RETURN CODE = retcode. PROCESSING TERMINATED.

Explanation: The key generator utility program received a non-zero return code during the pre-processing phase of the exit.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Check the installation exit to determine if there are problems in the module. Make any necessary corrections and re-link the installation exit.

CSFG0455 INSTALLATION EXIT POSTPROCESSING RETURN CODE = retcode. PROCESSING TERMINATED.

Explanation: The key generator utility program received a non-zero return code during the post-processing phase of the exit.

System Action: Processing ends.

User Response: Contact the programmer responsible

for the exit.

System Programmer Response: Check the installation exit to determine if there are problems in the module. Make any necessary corrections and re-link the installation exit.

CSFG0465 INSTALLATION EXIT NOT AVAILABLE FOR PROCESSING SET STATEMENT.

Explanation: The installation exit was not available when processing the SET control statement.

System Action: Processing ends.

User Response: If the SET control statement is required, contact the system programmer to make the exit available.

System Programmer Response: Ensure that the installation exit resides in the appropriate library. If necessary, restart ICSF with the EXIT statement for CSFKGUP that is included in the installation options data set.

CSFG0474 Keyword KEYWORD NOT SPECIFIED.

Explanation: The control statement does not contain the required keyword, *keyword*.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with the required keyword and rerun the key generator utility program.

TWO LABEL VALUES NOT SPECIFIED CSFG0484 ON RENAME STATEMENT.

Explanation: The RENAME control statement does not contain two label values.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with two label values after the LABEL keyword. Rerun the key generator utility program.

CSFG0494 **TOO MANY LABEL VALUES** SPECIFIED.

Explanation: The control statement contains more than 64 labels.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with 1 to 64 label values and rerun the key generator utility program.

CSFG0504 MORE THAN TWO KEY VALUES SPECIFIED.

Explanation: The KEY keyword in the control statement contains more than two key values.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with one or two key values and rerun the key generator utility program.

CSFG0514 **DUPLICATE LABEL VALUES** SPECIFIED.

Explanation: The control statement contains duplicate label values for the LABEL keyword.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with unique label values and rerun the key generator utility program.

CSFG0524 **MORE THAN TWO TRANSKEY VALUES** SPECIFIED.

Explanation: The control statement contains more than two label values for the TRANSKEY keyword.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with two unique TRANSKEY label values and rerun the key generator utility program.

CSFG0534 Keyword KEYWORD SPECIFIED WITH MISSING OR INCORRECT VALUES.

Explanation: The control statement specified a keyword with either no value or an incorrect value.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Specify a valid value for the control statement and rerun the key generator utility program.

CSFG0544 **KEY VALUE SPECIFIED NOT 16** CHARACTERS.

Explanation: The control statement contains a key value for the KEY keyword that is not 16 characters in length.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Specify 16 characters for the key value and rerun the key generator utility program.

CSFG0554 TWO RANGE VALUES NOT SPECIFIED.

Explanation: The control statement does not specify two label values with the RANGE keyword.

System Action: Processing ends for this control statement. Normal processing of the input file continues.

User Response: Update the control statement with starting and ending label values and rerun the key generator utility program.

CLEAR KEYWORD SPECIFIED WHILE CSFG0575 SPECIAL SECURITY MODE DISABLED.

Explanation: The CLEAR keyword requires special security mode.

System Action: Processing ends.

User Response: Contact your security administrator.

Programmer Response: Make sure that SSM is enabled via the KGUP parameter, the Environment Control Mask, and system options. Then rerun the job.

CSFG0585 **KEYS RETURNED FROM INSTALLATION EXIT DO NOT CONTAIN** VALID HEXADECIMAL CHARACTERS.

Explanation: The key generator installation exit returned key values that are not valid. The values must be in hexadecimal characters.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Supply the correct hexadecimal values for the keys and re-link the installation exit.

CSFG0604 DOUBLE-LENGTH KEY VALUE IS NOT VALID FOR KEY TYPE type.

Explanation: The control statement specifies KEY(key_value,ikey_value), but TYPE specifies a short key type that can accept only KEY(key_value).

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0614 OUTTYPE OF outtype NOT VALID WITH TYPE type.

Explanation: The OUTTYPE keyword specifies a key type that is not a valid complementary key type for the key type that is specified on the TYPE keyword. Refer to z/OS ICSF Application Programmer's Guide and z/OS ICSF Administrator's Guide for a list of valid TYPE and OUTTYPE combinations.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0624 Keyword NOT VALID BECAUSE TYPE IS NULL.

Explanation: A keyword other than LABEL or RANGE was found with TYPE(NULL). The statement is not valid.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0634 ONLY DOUBLE LENGTH KEY VALUES ALLOWED FOR KEY TYPES DATAM and DATAMV.

Explanation: The control statement specifies a KEY with either a single-length or triple-length key value, but only a double-length key value is acceptable for the key type specified in the TYPE keyword.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0643 SAME LABEL FOUND ON THE CKDS

FOR TYPE type1. Function NOT PERFORMED BECAUSE TYPE type2 REQUIRES A UNIQUE LABEL.

Explanation: A KGUP control statement specifies ADD or RENAME, so KGUP is trying to place a new label on the CKDS. However, the same label name already exists on the CKDS for another key type (type1). Either the requested key type, or the key type of the existing CKDS entry, or both require a unique label.

System Action: KGUP bypassed processing of the incorrect label. If this is a RANGE statement or a LABEL statement with multiple labels, processing of the other labels continues.

User Response: Correct the KGUP statement.

CSFG0654 Keyword NOT VALID FOR DELETE.

Explanation: The specified keyword is not valid on a DELETE statement. The only valid keywords on a DELETE statement are TYPE and either LABEL or RANGE.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0664 RANGE LABEL SUFFIXES ARE NOT THE SAME LENGTH.

Explanation: The two RANGE labels you specified do not have the same number of numeric digits after the last nonnumeric character in the label.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0674 RANGE LABEL SUFFIX HAS TOO MANY DIGITS.

Explanation: You specified a RANGE label with more than 4 numeric digits after the last nonnumeric character. The maximum suffix value is 9999.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0684 RANGE LABEL HAS NO NUMERIC SUFFIX.

Explanation: You specified a RANGE label with a nonnumeric character as its last character. A valid RANGE label must end with 1–4 numeric digits, which specifies a suffix value between 0 and 9999.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0704 UPDATE NOT ALLOWED FOR TYPE NULL.

Explanation: An UPDATE statement specifies TYPE(NULL), which is allowed only in an ADD statement or DELETE statement.

System Action: Processing ends.

User Response: Correct the KGUP statement.

CSFG0715 INSTALLATION EXIT CHANGED THE <LABELITYPE> FOR label type.

Explanation: The installation exit changed the LABEL or TYPE of *label type* in the exit parameter block, which is not allowed.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Remove changes that the installation exit made to the type or label portion of the key.

CSFG0725 **Keyword NOT VALID WITH MULTI-PART** DATA KEY.

Explanation: KGUP has encountered an ADD or UPDATE statement that contains either a CDMF data key of more than 8 bytes, or a request to generate a CDMF data key of more than 8 bytes.

System Action: Processing ends.

User Response: Correct the KGUP statement so that either the algorithm requested is DES or the key length is 8.

CSFG0735 INCORRECT VALUE OF LENGTH FOR KEY TYPE type.

Explanation: The LENGTH keyword on either an ADD or UPDATE statement contained a value greater than the maximum allowable length for the key type. For types MAC, MACVER, and DATAXLAT, the maximum allowable length is 8. For type DATA, the maximum is 24. For all other types, the maximum is 16.

System Action: Processing for the ADD or UPDATE statement ends.

User Response: Correct the KGUP statement so that the value of LENGTH does not exceed the maximum for the key type.

Chapter 6. CSFInnnn Messages (Component Trace)

This section describes diagnostic messages that are issued only in an interactive problem control system (IPCS) environment.

CSFI001E Module-name INVOKED IN ERROR.

Explanation: Module *module-name* should not be called more than once because there is only one ICSF component trace buffer to be found.

System Action: ICSF component trace formatting

ends.

User Response: Contact the IBM Support Center.

CSFI002E *Module-name* **IPCS ERROR** *retcode*.

Explanation: Module *module-name* encountered an IPCS service error. The return code is indicated in *retcode*.

System Action: ICSF component trace formatting or control block formatting ends.

User Response: Check the meaning of the return code in *z/OS MVS Diagnosis: Reference*.

CSFI003E Module-name UNABLE TO LOCATE

control-block - FOUND identifier.

Explanation: Either ICSF was not initialized, or module *module-name* was not able to locate the control block that is indicated in *control-block*. Instead, it found the identifier.

System Action: ICSF component trace formatting or control block formatting ends.

User Response: Either use the correct level of the formatter for the dump, take another up-level dump, or contact the IBM Support Center.

CSFI004E Module-name UNABLE TO USE control-block.

Explanation: Either module *module-name* was not able to locate the control block following the control block *control-block* because the pointer to it from the *control-block* was zero, or ICSF was not initialized or was not running.

System Action: ICSF component trace formatting or control block formatting ends.

User Response: Either use the correct level of the formatter for the dump, take another up-level dump, or contact the IBM Support Center.

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Chapter 7. CSFMnnnn Messages (ICSF Address Space)

This section describes messages that the Integrated Cryptographic Service Facility mainline task issues.

CSFM001I ICSF INITIALIZATION COMPLETE.

Explanation: This is the normal message that is expected in response to a START CSF operator command. However, if ICSF services are not supported because the master key has not been validated yet, message CSFM400I may follow.

System Action: Processing continues.

Operator Response: None.

System Programmer Response: If ICSF services are not available, check to see if the master key has been validated.

CSFM002E ICSF STOP REQUEST OVERRIDDEN BY INSTALLATION EXIT exit-name.

Explanation: If installation exit CSFEXIT4 denies or overrides the STOP request, ICSF issues this message in response to an operator requested STOP (P CSF) command. The exit returned a return code of 4. For more information about CSFEXIT4, see the *z/OS ICSF System Programmer's Guide*.

The exit-name is the name of the routine.

System Action: Processing continues.

Operator Response: If appropriate, contact your system programmer.

System Programmer Response: Determine if the CSFEXIT4 installation exit is working properly.

CSFM003A ICSF TERMINATING. ICSF MUST BE RUN AS A STARTED TASK.

Explanation: ICSF must be started with a START CSF operator command. If ICSF is not a started task (for example, a batch job), this message is issued.

System Action: ICSF ends.

Operator Response: If appropriate, issue the START

CSF command.

System Programmer Response: Determine why ICSF was not started as a started task.

CSFM004A ICSF TERMINATING. ICSF | PCF or CUSP IS ALREADY ACTIVE.

Explanation: This message is issued if you try to start ICSF and one of the following is true:

 You specified COMPAT(YES) mode, and PCF or CUSP is currently active. · ICSF is currently active.

System Action: If PCF or CUSP is active, ICSF ends. If ICSF is already active, the new call to ICSF ends, and ICSF remains active.

Operator Response: If appropriate, contact your system programmer.

System Programmer Response: If PCF or CUSP is already active, you can start ICSF with either COMPAT(NO) or COMPAT(COEXIST) mode.

CSFM005A ICSF TERMINATING. PREREQUISITE SOFTWARE IS NOT INSTALLED.

Explanation: The prerequisite software is not installed; therefore ICSF cannot be started.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

System Programmer Response: Check the install logic that came with the product tapes or see the *z/OS ICSF Overview* manual, which documents the prerequisite software.

CSFM006A ICSF TERMINATING DUE TO INSTALLATION EXIT exit-name.

Explanation: ICSF issues this message when an installation exit issues a request to stop ICSF. The *exit-name* indicates the name of the exit. CSFEXIT1, CSFEXIT2, CSFEXIT3, and CSFEXIT5 are the possible exits that can issue a request to stop ICSF. For more information about these exits, see the *z/OS ICSF System Programmer's Guide*.

System Action: ICSF ends.

Operator Response: If necessary, contact your

system programmer.

System Programmer Response: None.

CSFM008I AN ABEND OCCURRED IN THE ICSF

MAINLINE. PSW = *psw*, **abend code** = *abend-code*, **reason** = *rsncode*.

Explanation: ICSF issues this message when an abnormal end occurs in the ICSF main task routine. Recovery has received control and taken a system dump. Depending on where the error occurred, processing continues.

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ICSF writes this message to the CSFLIST data set, not to the operator.

See the z/OS ICSF System Programmer's Guide for more information about formatting the system dumps.

System Action: ICSF ends.

System Programmer Response: Contact the IBM

Support Center.

CSFM009I NO ACCESS CONTROL AVAILABLE FOR ICSF SERVICES OR KEYS

Explanation: ICSF issues this message if it is unable to perform RACROUTE REQUEST=LIST for the classes CSFSERV and/or CSFKEYS during initialization.

System Action: Processing continues.

Operator Response: Inform system programmer.

Programmer Response: If the installation is using security exits instead of RACF for ICSF security, ensure that the ICSF OPTIONS data set contains EXIT statements that name those exits.

System Programmer Response: If the installation is using RACF for ICSF security, ensure that the correct level of RACF is installed.

CSFM010E ICSF TERMINATING. PROCESSOR IS UNSUPPORTED.

Explanation: ICSF is being started on hardware that is no longer supported.

System Action: ICSF ends.

Operator Response: Inform your system programmer.

System Programmer Response: Contact the IBM

Support Center.

CSFM011I **FASTAUTH IS NOT SUPPORTED BY** THE INSTALLED SECURITY PRODUCT.

- I Explanation: ICSF issues this message to notify users
 - when it will not be issuing RACROUTE
- REQUEST=FASTAUTH requests due to the installed
- security product not supporting those requests.
- System Action: ICSF will continue processing. No
- checking will be performed before accessing ICSF
- services or the CKDS and PKDS.
- Operator Response: Notify your security
- administrator.
- System Programmer Response: Contact your
- installed security product provider to see if an upgrade
- is available which supports RACROUTE
- REQUEST=FASTAUTH.

CSFM020I

AN ABEND OCCURRED IN CSFMLFDT. **PSW** psw COMPLETION CODE abend-code, REASON = rsncode.

Explanation: This message is issued when an abnormal end occurs in the look for disabled cryptographic feature (MLFDT) sub-task routine. Recovery has received control and taken a system dump.

System Action: The sub-task routine ends.

System Programmer Response: Contact the IBM

Support Center.

CSFM021I

CSFMLFDT WAS UNABLE TO ESTABLISH RECOVERY. RETURN CODE return-code **FROM THE ESTAE** MACRO.

Explanation: ICSF issues this message when it receives a nonzero return code from the ESTAE macro.

System Action: Processing continues without recovery.

System Programmer Response: For more information about the return code, see the z/OS MVS Programming: Authorized Assembler Services Reference ENF-IXG.

If the problem is not resolved, check the CSFLIST data set before contacting the IBM Support Center.

CSFM100E CRYPTOGRAPHIC KEY DATA SET, dsname IS NOT INITIALIZED.

Explanation: ICSF detected a master key authentication pattern that was not valid on the cryptographic key data set (CKDS). Either the CKDS was not initialized, or the CKDS is not valid for this system. It is normal to see this message the first time ICSF starts.

System Action: Processing continues but cryptographic services are not enabled.

Operator Response: Contact your system programmer.

System Programmer Response: Initialize the CKDS through the ICSF panels. You may need to load the master key into the new master key register.

CSFM105E CRYPTOGRAPHY - DOMAIN 'domain' IS NOT ACCESSIBLE.

Explanation: The value of the DOMAIN parameter in the installation options file has specified a cryptographic domain that this operating system cannot access. Either the number was incorrect, or the PR/SM definition tables do not allow access.

For more information about the number of domains that your processor supports, see either the PR/SM Planning Guide or the IBM ES/9000 and ES/3090 Processor Complex PR/SM Planning Guide.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

System Programmer Response: Ensure that the specified DOMAIN is valid for your processor. If you are running in logically partitioned (LPAR) mode, ensure that the DOMAIN has been assigned to your LPAR mode. If neither of these conditions resolve the problem, contact the IBM Support Center.

CSFM106A CRYPTOGRAPHY - PKA MASTER KEYS ARE NOT VALID.

Explanation: One or both of the PKA master keys are not valid. This occurs if a PKA master key is not installed in all cryptographic units, or if the PKA master keys on all the cryptographic units are not the same. It is normal to see this message the first time ICSF starts.

System Action: Processing continues, but PKA callable services are not enabled.

Operator Response: Notify your security administrator to install the PKA master keys.

System Programmer Response: None.

CSFM107E CRYPTOGRAPHY - CRYPTO UNITS CONFIGURED DIFFERENTLY.

Explanation: The Cryptographic Configuration Control (CCC) installed on the cryptographic units is not the same. The Processor Controller installs the CCC from the Cryptographic Configuration diskette.

System Action: ICSF abends.

Operator Response: Notify your system programmer.

System Programmer Response: Verify that the correct Cryptographic Configuration diskettes were used to initialize the cryptographic units and that the Processor Controller initialization completed successfully. If the diskettes are incorrect, contact IBM.

CSFM113E CRYPTOGRAPHY

cryptographic_module_id MODULE NOT INITIALIZED.

Explanation: The cryptographic module that the message identifies has not been initialized.

System Action: If neither cryptographic module has been initialized, then ICSF ends; no cryptographic function is possible. If either cryptographic module has been successfully initialized, ICSF continues initialization processing.

Operator Response: Notify your system programmer.

System Programmer Response: The Service

Processor needs to initialize the cryptographic module from a diskette. Use the cryptographic module identifier in the message to identify the correct diskette to use. The restart ICSF.

CSFM114E CRYPTOGRAPHY - ALL ASYNCHRONOUS COPROCESSORS NOT AVAILABLE.

Explanation: The processing that is required to pass work to the asynchronous coprocessor is not available.

System Action: Processing continues, but services that are using the asynchronous coprocessor will not function.

Operator Response: Notify your system programmer.

System Programmer Response: Check that the proper domain is specified in the Installation Options Data Set. The domain must agree with the PR/SM usage domain specification. If you cannot resolve the problem, contact the IBM Support Center.

CSFM115E CRYPTOGRAPHY -

cryptographic_module_id RANDOM NUMBER GENERATOR NOT INITIALIZED.

Explanation: The random number generator of the cryptographic module that the message identifies has not been initialized.

System Action: This is most likely a hardware error. If the random number generator has not been initialized on either cryptographic module, ICSF ends; no cryptographic function is possible. If the random number generator on either cryptographic module has been successfully initialized, ICSF continues the initialization processing.

Operator Response: Notify your system programmer.

System Programmer Response: Contact the IBM Support Center.

CSFM116I

BOTH MASTER KEYS CORRECT ON PCI CRYPTOGRAPHIC COPROCESSOR Ppp, SERIAL NUMBER nn-nnnn.

Explanation: The PCI cryptographic coprocessor with serial number *nn-nnnn* is online and operational. It is installed at position *Ppp*.

System Action: The system will use the PCI cryptographic coprocessor for cryptographic operations.

CSFM117I

PCI CRYPTOGRAPHIC COPROCESSOR *Ppp*, SERIAL NUMBER *nn-nnnn*, OFFLINE.

Explanation: The PCI cryptographic coprocessor with serial number *nn-nnnn* is offline and cannot be used for any operation. It is installed at position *Ppp*.

System Action: The system will not use the PCI cryptographic coprocessor for cryptographic operations.

System Programmer Response: Have the PCI cryptographic coprocessor brought online.

CSFM118E PCI CRYPTOGRAPHIC COPROCESSOR Ppp, SERIAL NUMBER nn-nnnn, FAILED.

Explanation: The PCI cryptographic coprocessor with serial number *nn-nnnn*, installed at position *Ppp*, has failed and cannot be used for any operation.

System Action: The system will not use the PCI cryptographic coprocessor for cryptographic operations.

System Programmer Response: Have the PCI cryptographic coprocessor removed or replaced by your IBM Customer Engineer.

CSFM119E INCORRECT MASTER KEY mk ON PCI CRYPTOGRAPHIC COPROCESSOR Ppp, SERIAL NUMBER nn-nnnn.

Explanation: The PCI cryptographic coprocessor with serial number *nn-nnnn*, installed at position *Ppp*, has an incorrect master key. The variable mk will specify either SYM-MK or ASYM-MK or BOTH. This message may be issued at initialization or when a new PCI cryptographic coprocessor unit comes online.

System Action: The system will not use the PCI cryptographic coprocessor for cryptographic operations until the security administrator changes its master key.

System Programmer Response: Have the system adminstrator enter the correct master key.

CSFM120E PUBLIC KEY SECURE CABLE (PKSC) FACILITY IS NOT ENABLED.

Explanation: There are several functions that must be enabled on the PR/SM definition. They are Enable cryptographic functions and Enable public key secure cable (PKSC) and integrated cryptographic service facility (ICSF). These boxes must be checked on the Crypto page of the Customize/Delete Activation Profiles notebook. These options are selected on the Support Element panels.

SeePR/SM Planning Guide.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

System Programmer Response: Update the PR/SM

panels and restart ICSF.

INSTALLATION SERVICE service-name CSFM200I NOT FOUND.

Explanation: This is an informational message only.

System Action: Processing continues.

System Programmer Response: Determine if the name of the service that is indicated in service-name is valid. If it is wrong, correct it and restart ICSF.

CSFM201A REQUIRED INSTALLATION SERVICE service-name NOT FOUND.

Explanation: You specified a service with option FAIL(ICSF) in the installation options data set, and ICSF could not find the service.

System Action: ICSF ends.

System Programmer Response: Correct the name of the service and restart ICSF.

CSFM224I PCI CRYPTOGRAPHIC COPROCESSOR Ppp, SERIAL NUMBER nn-nnnn, BUSY.

Explanation: This state may occur when the PCI cryptographic coprocessor is first brought online and is going through power-on reset. The PCI cryptographic coprocessor may also be in this state when new microcode is being loaded or when the unit is going through recovery processing.

System Action: The system will retry the PCI cryptographic coprocessor until it is no longer busy.

CSFM300I CKDS KEY 'key-name key-type' **AUTHENTICATION FAILED.**

Explanation: A message authentication code (MAC) verification for a CKDS kev entry failed. If a system kev (key with a label name of 64 bytes of X'00') fails authentication, the key-name field in the above message has the constant SYSTEM_Key.

System Action: Processing continues.

System Programmer Response: Investigate the key entry to determine why the MAC verification failed.

CSFM400I **CRYPTOGRAPHY - SERVICES ARE** NOW AVAILABLE.

Explanation: This is an informational message. ICSF is up and ready for work and remains started. Application services are available.

System Action: Processing continues.

Operator Response: None.

System Programmer Response: None.

CSFM401I CRYPTOGRAPHY - SERVICES ARE NO LONGER AVAILABLE.

Explanation: Either ICSF is stopping, or access to a cryptographic unit is no longer possible. For example, the last unit is in a 'DISABLED' state.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

System Programmer Response: Investigate the sequence of error messages prior to this message to help you resolve the problem.

CSFM402I DOMAIN INDEX IN THE OPTIONS DATA SET WAS IGNORED.

Explanation: ICSF detected a changed domain parameter in the options data set and COMPAT(YES) was specified, but there was no intervening IPL. The specified index in the domain installation option was ignored. The index was set to the value that was stored in the cryptographic communications vector table (CCVT) when ICSF was last started.

System Action: Processing continues.

Operator Response: Contact your system

programmer.

System Programmer Response: If the cryptographic domain index needs to be changed, re-IPL the system.

CSFM403I

CSFMIOST WAS UNABLE TO ESTABLISH RECOVERY. RETURN CODE return_code FROM THE ESTAE MACRO.

Explanation: ICSF issues this message when the ESTAE macros issues a nonzero return code.

System Action: Processing, including CSF I/O sub-task action, continues without recovery.

User Response: Investigate the return code from the ESTAE macro.

System Programmer Response: For more information about the return code, see the *z/OS MVS Programming: Authorized Assembler Services Reference ENF-IXG.*

If the problem is not resolved, check the CSFLIST data set before contacting the IBM Support Center.

CSFM404A PKA HASH PATTERN IN PKDS HEADER RECORD DOES NOT MATCH SYSTEM PKA HASH PATTERN.

Explanation: The PKA Hash Pattern, which is part of the PKDS header record, does not match the PKA Hash Pattern currently in use by ICSF. This can occur if the PKA master keys are changed and ICSF is ended

before writing any PKDS records. In this situation, the PKDS header record is not updated. When ICSF is restarted it detects a mismatch in the PKDS header record. This can also occur if the PKDS being used is not associated with the ICSF being started or the PKDS is back level or empty.

System Action: ICSF continues the initialization process, but marks the PKDS services as unavailable.

User Response: None.

System Programmer Response: If the PKDS is usable, use the ICSF panels to invoke the User Control functions and enable PKDS Read Access and PKDS Write, Create, and Delete Access. If the PKDS is unusable, correct the condition (if possible), stop ICSF, and restart with appropriate or fixed PKDS.

CSFM405A AUTHENTICATION CODE IN PKDS HEADER RECORD DOES NOT MATCH THE COMPUTED VALUE.

Explanation: The authentication code is a hash value computed using all the data in the record. It is stored in the header record when it is written, and is used as an integrity check. Subsequently, when ICSF read the record and recomputed the authentication code, it did not match the one in the record. This means that the record has been altered since it was written to the PKDS.

System Action: ICSF continues the initialization process, but marks the PKDS services as unavailable.

User Response: None.

System Programmer Response: If the PKDS is usable, use the ICSF panels to invoke the User Control functions and chose the options to allow PKDS Read Access and PKDS Write, Create, and Delete Access. If the PKDS is unusable, correct the condition (if possible), stop ICSF, and restart with fixed or empty PKDS.

CSFM406A UNEXPECTED ERROR PROCESSING PKDS HEADER RECORD. FUNCTION = function, RETURN CODE = rc, REASON CODE = rs.

Explanation: An error occurred when process the PKDS during initialization of ICSF. This may have occurred during allocation, open, read or write. The *function* will be either READ (if the PKDS has not been allocated or opened and the header record exists) or WRITE (if the header record is being written to an empty PKDS).

For an explanation of the *rc* and *rs* values, refer to the Return and Reason Code Appendix in *z/OS ICSF Application Programmer's Guide*. If the error occurred during data set allocation, the reason code is a combination of the dynamic allocation error code and an ICSF-assigned reason code for dynamic allocation error.

Message CSFC0036 precedes this message and gives more useful information in this case.

System Action: The initialization of ICSF does not continue, and ICSF processing ends. ICSF also issues message CSFM407A.

User Response: None.

System Programmer Response: Correct the problem as appropriate for any error messages that precede this one.

Start ICSF again with an empty or error-free PKDS.

CSFM407A PKDS dsname IS UNAVAILABLE.

Explanation: ICSF issues this message after issuing one or more messages that state the reason the PKDS has been marked unavailable.

System Action: The initialization of ICSF does not continue, and ICSF processing ends.

User Response: None.

System Programmer Response: Follow the directions that are given in the responses to the previous messages.

CSFM408A NO PKDS NAME WAS SPECIFIED IN THE OPTIONS DATA SET.

Explanation: With OS/390 R9, PKDS is a required

data set.

System Action: ICSF processing ends.

User Response: None.

System Programmer Response: Allocate a PKDS and specify its name in the options data set.

CSFM409E MULTIPLE DOMAINS AVAILABLE. SELECT ONE IN OPTIONS DATA SET.

Explanation: Multiple domains are available for this LPAR or native system. Select the domain using the DOMAIN parameter in the options data set.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

System Programmer Response: Add the Domain parameter to the options data set and restart ICSF.

CSFM410E ERROR IN OPTIONS DATA SET.

Explanation: Some keywords or parameters are not valid in the options data set. Check the CFLIST data set for the specific error messages.

System Action: ICSF ends.

Operator Response: Contact your system

programmer.

CSFM411I PCI CRYPTOGRAPHIC ACCELERATOR

Aaa IS ACTIVE.

System Programmer Response: Correct the error in

Explanation: The PCI cryptographic accelerator is online and operational. It is installed at position Aaa.

System Action: The system will use the PCI cryptographic accelerator.

the options data set and restart ICSF.

CSFM412I PCI CRYPTOGRAPHIC ACCELERATOR Aaa IS OFFLINE.

Explanation: The PCI cryptographic accelerator is offline. It is installed at position Aaa.

System Action: The system will not use the PCI cryptographic accelerator.

System Programmer Response: Have the PCI cryptographic accelerator brought online.

PCI CRYPTOGRAPHIC ACCELERATOR CSFM413E Aaa FAILED.

Explanation: The PCI cryptographic accelerator installed at position Aaa has failed.

System Action: The system will not use the PCI cryptographic accelerator.

System Programmer Response: Have the PCI cryptographic accelerator removed or replaced by your IBM Customer Engineer.

PCI CRYPTOGRAPHIC ACCELERATOR CSFM414I Aaa IS BUSY.

Explanation: This state may occur when the PCI cryptographic accelerator is first brought online and is going through power-on reset. The PCI cryptographic accelerator may also be in this state when new microcode is being loaded or when the unit is going through recovery processing.

System Action: The system will retry the PCI cryptographic accelerator until it is no longer busy.

CSFM501E **CRYPTOGRAPHY - HARDWARE FAILURE ON COPROCESSOR** coprocessor-id, CPU cpu-id.

Explanation: A cryptographic instruction has ended, indicating a cryptographic hardware failure. ICSF disables the failing CPU for cryptographic operations. An SMF82 record is written.

System Action: The CPU is disabled for cryptography.

Operator Response: Contact your system

programmer.

System Programmer Response: Contact the IBM Support Center.

CSFM503E CRYPTOGRAPHY - TAMPERING DETECTED ON COPROCESSOR

coprocessor-id, CPU cpu-id.

Explanation: A tamper condition occurred. The cryptographic feature has zeroed the master key registers in the indicated *coprocessor-id* and *cpu-id*.

System Action: The CPU alarm sounds. The CPU is disabled for cryptography. ICSF generates an SMF type 82 record.

Operator Response: See Support Element Operations Guide.

System Programmer Response: Contact the IBM Support Center.

CSFM504E CRYPTOGRAPHY - THERE ARE NO ONLINE CPUS WITH ACCESS TO A COPROCESSOR.

Explanation: A sequence of error messages has resulted in the disabling of all cryptographic CPUs.

System Action: The CPU is disabled for cryptographic services. They will be restored when at least one CPU is made available for cryptographic functions.

System Programmer Response: Investigate the sequence of error messages prior to this message to help you resolve the problem.

If you cannot resolve the problem, contact the IBM Support Center.

CSFM510E CRYPTOGRAPHY - VERIFICATION FAILED ON COPROCESSOR

coprocessor-id, CPU cpu-id.

Explanation: The master key authentication pattern is not valid.

System Action: The CPU is disabled for cryptography.

Operator Response: Contact your system

programmer.

System Programmer Response: Ensure that the CKDS is valid for the master key that is installed for that CPU.

CSFM511E CRYPTOGRAPHY - MASTER KEY ON

COPROCESSOR coprocessor-id, CPU cpu-id IS NOT VALID.

Explanation: The cryptographic unit has a zero master key.

System Action: The CPU is disabled for cryptography.

System Programmer Response: Determine why the master key is zeroed. You need to re-install the correct

key before using the CPU for cryptographic services. If you cannot resolve the problem, contact the IBM Support Center. It is normal to see this message the first time ICSF starts.

CSFM512E CRYPTOGRAPHY - PKA MASTER KEYS ON COPROCESSOR coprocessor-id ARE NOT VALID

Explanation: A new cryptographic unit has come online, but the PKA master key is not valid or does not agree with the PKA master key of the cryptographic unit already online.

System Action: Processing continues, but PKA callable services are not enabled on the new unit.

Operator Response: Notify your security administrator to install the correct PKA master key on the new unit.

System Programmer Response: None.

CSFM522E CRYPTOGRAPHY - COPROCESSOR coprocessor-id, CPU cpu-id IS DISABLED

Explanation: Cryptographic functions are disabled in the Environment Control Mask (ECM). This can only be done from the TKE workstation.

System Action: The CPU is disabled for cryptography.

System Programmer Response: Enable cryptographic functions for the cryptographic unit in the ECM using the TKE workstation.

Chapter 8. CSFOnnnn Messages (Installation Options Parameter Processing)

These messages go to the CSFLIST data set that is specified in the ICSF startup

ERROR OCCURRED OPENING CSFO0016 **OPTIONS FILE.**

Explanation: ICSF could not open the options parameter file that is specified on the CSFPARM DD statement in the JCL.

System Action: Processing ends.

User Response: Ensure that the options parameter file that is defined by the DD statement is valid. Correct the DD statement and restart ICSF.

CSFO0026 **ERROR OCCURRED CLOSING** OPTIONS FILE.

Explanation: ICSF could not close the options

parameter file.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Check other messages. If you cannot correct the error, contact the IBM Support Center.

CSFO0036 **SYNTAX ERROR IN OPTION** STATEMENT.

Explanation: The statement that immediately precedes this message has at least one syntax error.

System Action: Processing ends.

User Response: Check the syntax of the option statement. Check for unpaired delimiters and missing or extraneous commas and ensure that the statement does not exceed position 71. Correct the error and restart ICSF.

CSFO0046 PARTITIONED DATA SET NOT ALLOWED FOR THE CKDS OR PKDS.

Explanation: The CKDSN or PKDSN keyword on an option statement specified a member name for a data set. The CKDS or PKDS must be a VSAM data set.

System Action: Processing ends.

User Response: Correct the CKDSN value and restart

ICSF.

CSFO0056 CKDS DSNAME MISSING.

Explanation: The options parameter file did not include a statement that contains the CKDSN keyword and value.

System Action: Processing ends.

User Response: Ensure that the options parameter file contains a statement with the CKDSN keyword and its value, and restart ICSF.

CSFO0066 Keyword VALUE NOT IN RANGE.

Explanation: The specified value for the keyword is not within the allowable range. z/OS ICSF System Programmer's Guide describes the allowable range for the keyword. The statement that contains the error precedes this message.

System Action: Processing ends.

User Response: Specify an allowable range for the keyword and restart ICSF.

CSFO0076 **Keyword KEYWORD SPECIFIED WITH** MISSING VALUE.

Explanation: A keyword value is missing for the keyword variable. The statement that contains the error precedes this message.

System Action: Processing ends.

User Response: Specify a value for the keyword and restart ICSF.

EXIT IDENTIFIER *exit-id* **NOT VALID.** CSFO0086

Explanation: The specified exit identifier for the EXIT keyword is not valid. The statement that contains the error precedes this message.

System Action: Processing ends.

User Response: Specify a valid exit identifier and

restart ICSF.

SERVICE NUMBER VALUE NOT IN CSFO0096 RANGE.

Explanation: The specified service number for the SERVICE and UDX keywords must be from 1 to 32767. The statement containing the error precedes this message.

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System Action: Processing ends.

User Response: Specify a service number value

between 1 and 32767 and restart ICSF.

CSFO0106 **Keyword KEYWORD AND VALUE** MISSING.

Explanation: The *keyword* keyword and its value are missing from the option statement. The statement that contains the error precedes this message.

System Action: Processing ends.

User Response: Specify the keyword and its value

and restart ICSF.

ERROR OCCURRED FREEING CSFO0116 **OPTIONS FILE.**

Explanation: After processing the options parameter file, ICSF could not deallocate the data set.

System Action: Processing continues.

User Response: If you need the file for other processing, contact your system programmer.

System Programmer Response: Check the other messages. If you cannot correct the error, contact IBM Support Center.

ERROR OCCURRED OPENING CSFO0126 WAITLIST FILE.

Explanation: ICSF could not open the Wait List file specified by the WAITLIST parameter in the ICSF Installation Options data set.

System Action: Processing continues. The ICSF default CICS Wait List file will be used.

User Response: Contact your system programmer.

System Programmer Response: Ensure that the Wait List file specified in the Installation Options data set is valid.

CSFO0136 **ERROR OCCURRED CLOSING** WAITLIST FILE.

Explanation: ICSF could not close the Wait List file specified by the WAITLIST parameter in the ICSF Installation Options data set.

System Action: Processing continues.

User Response: Contact your system programmer.

System Programmer Response: Check for other messages. If you cannot correct the error, contact the IBM Support Center.

CSFO0146 **ERROR OCCURRED ALLOCATING** WAITLIST FILE.

Explanation: ICSF could not allocate the Wait List file specified by the WAITLIST parameter in the ICSF Installation Options data set.

System Action: Processing continues. The ICSF default CICS Wait List will be used.

User Response: Contact your system programmer.

System Programmer Response: Ensure that the Wait List file specified in the Installation Options data set is valid.

CSFO0156 **ERROR OCCURRED FREEING** WAITLIST FILE.

Explanation: ICSF could not deallocate the Wait List file specified by the WAITLIST parameter in the ICSF Installation Options data set.

System Action: Processing continues.

User Response: Contact your system programmer.

System Programmer Response: Check other messages. If you cannot correct the error, contact the IBM Support Center.

CSFO0166 **DEFAULT CICS WAITLIST WILL BE USED**

Explanation: The default ICSF CICS Wait List file will be used for ICSF processing because of one of the

- 1. There was no Wait List file specified in the Installation Options data set.
- 2. ICSF could not open or allocate the Wait List file specified.
- 3. The specified Wait List file contained more entries than allowed.

System Action: Processing continues. The default ICSF CICS Wait List file will be used during ICSF processing.

User Response: Contact your system programmer.

System Programmer Response: If use of the ICSF default CICS Wait List file is the desired ICSF processing option, no action is required. Otherwise, ensure that the Wait List file specified in the Installation Options data set is valid.

CSFO0176 **SERVICE NAME &ROUTINE NOT VALID** AND WILL BE SKIPPED

Explanation: The service name specified, which is contained in the Wait List file, is not a valid name of an ICSF service or of an installation-defined service. The specified service name will not be placed in the Wait List.

System Action: Processing continues. The specified service name will not be placed in the Wait List.

User Response: Contact your system programmer.

System Programmer Response: Check the contents of the Wait List file specified by the WAITLIST option of the Installation Options data set. Check the spelling of the service names in the file. Each record must be the name of an ICSF service or of a current installation-defined service or UDX service. Syntax rules for the CICS Wait List file are discussed in *z/OS ICSF System Programmer's Guide*.

CSF00186 NUMBER OF WAIT LIST ENTRIES EXCEEDS MAXIMUM ALLOWED

Explanation: The number of entries in the Wait List file exceeds the allowable maximum. The allowable maximum is the sum of the number of ICSF services and the number of current installation-defined services and UDX services.

System Action: Processing continues. The ICSF default CICS Wait List will be used.

User Response: Contact your system programmer.

System Programmer Response: Examine the entries in the Wait List file you specified by the WAITLIST option of the Installation Options data set. Remove any invalid service names from the list. If this does not solve the problem, contact the IBM Support Center.

Chapter 9. CSFPnnnn Messages (Parse)

This section describes messages that the parse service issues.

CSFP0016 COULD NOT CREATE PARSE ENVIRONMENT.

Explanation: ICSF or the key generator utility program initialization process could not create an environment suitable for parsing of the options parameter statements or the key generator control statements.

System Action: Processing ends for this request.User Response: Contact your system programmer.

System Programmer Response: Ensure that there is enough space to create parse related control blocks. Check if the valid level of TSO/E is installed in accordance with the installation instructions in the OS/390 Program Directory. If it is valid, contact the IBM Support Center.

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Chapter 10. CSFVnnnn Messages (CKDS Conversion Processing)

This section describes messages that ICSF issues during the cryptographic key data set (CKDS) conversion process.

C	CONVERSION PROCESSING COMPLETED. RETURN CODE =		code greater than 4. ICSF sets the reason code after issuing message CSFC0186.
conversion prog	The CUSP/PCF CKDS to ICSF CKDS gram has completed successfully.	6016	A failure or error occurred in an I/O routine. ICSF sets the reason code after the I/O routine issues a
System Action	: Processing ends.		CSFYnnnn message.
User Respons meanings below	e: Review the return codes and their v.	6020	The installation exit ended abnormally and the service processing has ended. ICSF sets the reason code
Return Code	Meaning		after issuing message CSFC0136.
00	Successful processing.	6024	The installation exit ended abnormally
04	The conversion process encountered warning conditions, but completed processing of all transactions. Review	0 U24	and the service processing has ended. ICSF sets the reason code after issuing message CSFC0206.
	preceding messages for the warning conditions.	6028	An ESTAE environment could not be established. ICSF sets the reason code after issuing message
	CONVERSION TERMINATED. RETURN CODE = retcode, REASON CODE =		CSFC0026.
	sncode.	6032	The dynamic allocation for the supplied CKDS failed. ICSF sets the
	An error occurred in the conversion aused ICSF to end processing. See the		reason code after issuing message CSFC0036.
list of return an cause of the er	d reason codes below to determine the ror.	termine the 6036	The dynamic unallocation for the supplied CKDS failed. ICSF sets the reason code after issuing message
Return code:	12		CSFC0076.
Reason Code	Meaning	6040	The required installation exit could not
6004	The conversion program selected a CKDS access function that is not valid.		be loaded to be run. ICSF sets the reason code after issuing message CSFC0166.
	The valid CKDS access functions are: READ READUP WRITE	6044	A call to CSFINF1 failed, and the error was not caused by ICSF not being active. ICSF sets the reason code after issuing message CSFC0053.
6008	 REWRITE A service routine failed. ICSF sets the reason code after issuing message CSFG0293. 	6048	ICSF could not find the system keys while attempting to write a complete CKDS. ICSF sets the reason code after issuing message CSFC0086.
	The service routines are: CSFMGN CSFMVR CSFMKVR	9000	The IMPORTER label that is specified for the PARM keyword of the EXEC JCL statement is not valid. The length of the label must be eight characters or less, all non-blank character must
6012	The installation exit returned a return		be alphanumeric, and the first character must be alphabetic. ICSF

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	sets the reason code after issuing message CSFV0036.	9040	An override entry consists of all blanks.
9004	ICSF could not find the IMPORTER record on the supplied ICSF CKDS for the label that is specified with the PARM keyword on the EXEC JCL statement. ICSF sets the reason code after issuing message CSFV0046.	9044	An override entry is out of sequence. The override entries should be in sequence by LABEL and OLD_TYPE. ICSF sets the reason code after issuing message CSFV0316.
9008	The CUSP/PCF CKDS that was input to the conversion process is not valid. ICSF sets the reason code after issuing message CSFV0056.	9048	An override entry duplicates another override entry within LABEL and OLD_TYPE. ICSF sets the reason code after issuing message CSFV0326.
9016	The conversion process attempted to use a non-empty output ICSF CKDS. The output ICSF CKDS that is specified by DD statement CSFVNEW must be empty when running the conversion process. ICSF sets the reason code after issuing message CSFV0056.	9056	An override entry's NEW_TYPE is not valid. If the OLD_TYPE is LOCAL, the NEW_TYPE must be EXPORTER, OPINENC, or blank. If the OLD_TYPE is REMOTE, the NEW_TYPE must be IMPORTER, IPINENC, or blank. ICSF sets the reason code after issuing message CSFV0346.
9020	The required conversion installation exit could not be loaded. This may be caused by one of the following conditions. The EXIT keyword in the options file specifies an incorrect load	9060	An override entry's OLD_TYPE is not valid. The OLD_TYPE must be LOCAL, REMOTE, or blank. ICSF sets the reason code after issuing message CSFV0356 or CSFV0366.
	module name. The load module does not exist in any library in the link list being used. The load module does not exist in the library specified in a JOBLIB or STEPLIB DD statement. ICSF sets the reason code after	9064	An override entry's BYPASS_FLAG is not valid. The BYPASS_FLAG must be Y, N, or blank. Blank is equivalent to N. ICSF sets the reason code after issuing message CSFV0376.
9024	issuing message CSFC0172. The record type of a source CUSP/PCF CKDS entry is not valid. The record type must be either LOCAL, REMOTE, or CROSS. ICSF sets the reason code after issuing	9068	The pre-processing installation exit call has failed with a return code greater than 8. ICSF sets the reason code after issuing message CSFV0506. Follow local procedures for installation exit problems.
9028	message CSFV0266. The conversion program encountered a second explicit override entry when an explicit override entry already pertains to all types within the label. ICSF sets the reason code after issuing message CSFV0256.	9072 9076	The post-processing installation exit call has failed with a return code greater than 8. ICSF sets the reason code after issuing message CSFV0516. Follow local procedures for installation exit problems. The record processing installation exit
9032	The conversion program encountered a third global override entry. The conversion process allows for a total of two global override entries as input. ICSF sets the reason code after issuing message CSFV0276.	9080	call has failed with a return code greater than 8. ICSF sets the reason code after issuing message CSFC0186. Follow local procedures for installation exit problems. The installation exit has ended
9036	The conversion program encountered a second global override entry when the first global override entry pertains to all types. ICSF sets the reason	330	abnormally, and ICSF should be stopped. ICSF sets the reason code after issuing message CSFC0206. Check the installation exit for errors.
	code after issuing message CSFV0286.	9084	The installation exit has ended abnormally, and the conversion process has ended. ICSF sets the

reason code after issuing message CSFC0136. Check the installation exit

module for errors.

9088 The installation exit has requested the

ending of the conversion process. ICSF sets the reason code after issuing message CSFV0546.

9092 A data set that was input to the

conversion process is not a valid ICSF/MVS Version 1 Release 1 CKDS. ICSF sets the reason code after issuing message CSFV0066.

9096 ICSF detected a duplicate label that is

not valid. Processing would have resulted in more than one key on the target CKDS with the same label. This condition is not valid when one of the keys is a DATA, MAC, MACVER, DATAXLAT, or NULL key. ICSF sets the reason code after issuing

message CSFV0396.

Return code: 16

Reason Code Meaning

O000 Could not open the output report data

set. Ensure that a JCL DD statement exists for the CSFVRPT report data set in the conversion process jobstream. If you cannot resolve the problem, see your system

programmer.

Return code: 20

Reason Code Meaning

0000 Could not establish an ESTAE

recovery environment. Attempt to run the job again. If it still fails, contact the

IBM Support Center.

Return code: 24

Reason Code Meaning

0000 An abnormal ending has occurred.

Respond to the problem that is identified in the associated error

message.

Return code: 64

Reason Code Meaning

0000 An OPEN error occurred for the

CSFVRPT report data set. If it is a pre-allocated data set, ensure that the

record length is correct.

Return code: 68

Reason Code Meaning

0000 An I/O error occurred for the

CSFVRPT report data set. An attempt to CLOSE the data set was tried, so check to see if there are meaningful

messages in the data set.

System Action: Processing ends.

User Response: Determine the cause of the error, correct the problem, and rerun the conversion program. If you cannot resolve the problem, contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the return and reason codes. Rerun the conversion program.

CSFV0036 IMPORTER KEY LABEL NOT VALID.

Explanation: The IMPORTER key label that is specified with the PARM keyword on the EXEC JCL statement is not valid. The label must be 64 or fewer characters in length.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9000. Processing ends.

User Response: Ensure that the label that is specified is correct and matches the IMPORTER label on the supplied ICSF CKDS. Rerun the conversion program.

CSFV0046 | label IMPORTER KEY NOT FOUND ON INPUT ICSF CKDS.

Explanation: The conversion program could not find the record for the IMPORTER key with the *label* label in the supplied ICSF CKDS. The label was specified with the PARM keyword on the EXEC JCL statement.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9004. Processing ends.

User Response: Ensure that the specified *label* is correct or that the IMPORTER label in the supplied ICSF CKDS is correct. Rerun the conversion program.

CSFV0056 CSFVSRC DATA SET NOT A CUSP OR PCF CKDS.

Explanation: The data set that is named in the CSFVSRC DD statement is not a CUSP/PCF CKDS.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9008. Processing ends.

User Response: Ensure that the CSFVSRC DD statement specifies the correct data set name for a CUSP/PCF CKDS. Rerun the conversion program.

CSFVSRC DATA SET NOT AN ICSF CSFV0066 **RELEASE 1 CKDS.**

Explanation: The data set that is named in the CSFVSRC DD statement is not an ICSF/MVS Version 1 Release 1 CKDS.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9092. Processing ends.

User Response: Ensure that the CSFVSRC DD statement specifies the correct data set name for an ICSF/MVS Version 1 Release 1 CKDS. Rerun the conversion program.

CSFV0152 TYPE FOR ALL type KEY ENTRIES **CONVERTED TO** new-type.

Explanation: A global override entry specified that all type key entries on the CUSP/PCF CKDS are to be converted to new-type key entries on the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

CSFV0172 ALL type KEY ENTRIES BYPASSED.

Explanation: A global override entry specified to bypass all entries on the CUSP/PCF CKDS with a type of type.

System Action: Processing continues.

User Response: None.

CSFV0182 **INSTALLATION DATA FOR ALL type** KEY ENTRIES SET TO installation-data.

Explanation: A global override entry specified that all key entries in the CUSP/PCF CKDS with a type of type are to have the value installation-data set in the INSTALLATION_DATA field of the entries on the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

CSFV0192 TYPE FOR KEY ENTRY label type **CONVERTED TO** new-type.

Explanation: An override entry specified that the type for the key entry in the CUSP/PCF CKDS identified as label type is to be changed to new-type on the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

KEY ENTRY label type BYPASSED. CSFV0212

Explanation: An override entry specified to bypass the key entry in the CUSP/PCF CKDS identified as label type and not include it in the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

CSFV0222 KEY ENTRY label type NOT BYPASSED.

Explanation: An override entry specified not to bypass the key entry in the CUSP/PCF CKDS identified as label type and to include it in the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

CSFV0232 **INSTALLATION DATA FOR KEY ENTRY** label type SET TO installation-data.

Explanation: An override entry specified that the INSTALLATION_DATA for the key entry in the CUSP/PCF CKDS identified as label type is to be set to installation-data on the new ICSF CKDS.

System Action: Processing continues.

User Response: None.

CSFV0256 OVERRIDE ENTRY FOR KEY ENTRY label NOT VALID. PREVIOUS

OVERRIDE ENTRY HAD BLANK OLD TYPE.

Explanation: An override entry specified the same key label (label) as a previous override entry, which had a blank OLD TYPE specified. Only one override entry is allowed with a blank OLD_TYPE because it applies to all entries with a matching label.

System Action: The system issues message CSFV0026 with return code of 12 and a reason code of 9028. Processing ends.

User Response: Either remove the second override entry from the override data set or ensure that the first override entry has a value for OLD_TYPE. Rerun the conversion program.

CSFV0266 CUSP/PCF KEY ENTRY label TYPE NOT VALID.

Explanation: The CUSP/PCF CKDS entry with LABEL label has a type that is not LOCAL, REMOTE, or CROSS.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9024. Processing ends.

User Response: Specify LOCAL, REMOTE, or

CROSS for the CUSP/PCF CKDS entry type. Rerun the conversion program.

CSFV0276 MORE THAN TWO GLOBAL OVERRIDE ENTRIES SPECIFIED.

Explanation: The override data set contains more than two global entries. The maximum number of global entries is two; one for each type, LOCAL and REMOTE.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9032. Processing ends.

User Response: Remove the extraneous global override entries. Rerun the conversion program.

CSFV0286 GLOBAL OVERRIDE ENTRY NOT VALID. PREVIOUS GLOBAL OVERRIDE ENTRY HAD BLANK OLD_TYPE.

Explanation: A second global override entry was present when the first global override entry had no value specified for OLD_TYPE. Because the first global override entry is to be applied to all entries, the second global override entry is redundant.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9036. Processing ends.

User Response: Ensure that the override data set contains the proper global override entries. Rerun the conversion program.

CSFV0292 NO KEY ENTRY FOUND FOR label type.

Explanation: An override entry specified a key entry of *label type* that was not present in the CUSP/PCF CKDS. The conversion program ignored the override entry.

System Action: Processing continues.

User Response: If the *label type* specification was incorrect, change it. A global override entry may be required to bypass all entries on the CUSP/PCF CKDS. Rerun the conversion program.

CSFV0306 BLANK OVERRIDE ENTRY.

Explanation: The override data set contains an entry that is all blanks, which is not valid.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9040. Processing ends.

User Response: Remove the blank override entry and rerun the conversion program.

CSFV0316 OVERRIDE ENTRY NOT IN SEQUENCE.

Explanation: The override data set has an entry that is not in ascending sequence on LABEL and OLD_TYPE.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9044. Processing ends.

User Response: Ensure that the override data set is in ascending sequence on LABEL and OLD_TYPE. Rerun the conversion program.

CSFV0326 DUPLICATE OVERRIDE ENTRY FOR KEY ENTRY label type.

Explanation: The override data set contained an entry that specified the same key entry (*label type*) as a previous override entry.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9048. Processing ends.

User Response: Remove one of the duplicate override entries. Rerun the conversion program.

CSFV0346 CANNOT CHANGE TYPE TO new-type FOR KEY ENTRY label type.

Explanation: An override entry specified that the type for the key entry *label type* in the CUSP/PCF CKDS be converted to *new-type* in the new ICSF CKDS. This is not valid. If the source type is LOCAL, the new type must be EXPORTER or OPINENC. If the source type is REMOTE, the new type must be IMPORTER or IPINENC.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9056. Processing ends.

User Response: Either change the new type or delete the override entry. Rerun the conversion program.

CSFV0356 OLD_TYPE REQUIRED WHEN NEW_TYPE SPECIFIED ON OVERRIDE ENTRY.

Explanation: An override entry specified a value for NEW_TYPE, but did not specify a value for OLD_TYPE.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9060. Processing ends.

User Response: Either specify a value for the OLD_TYPE or remove the supplied NEW_TYPE. Rerun the conversion program.

CSFV0366 **OLD TYPE** *type* **SPECIFIED ON** OVERRIDE ENTRY NOT VALID.

Explanation: An override entry specified an old type of type, which is not valid. The OLD_TYPE must be LOCAL, REMOTE, or blank.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9060. Processing ends.

User Response: Specify LOCAL, REMOTE, or blank for the OLD_TYPE field. Rerun the conversion program.

CSFV0376 BYPASS FLAG VALUE SPECIFIED ON OVERRIDE ENTRY NOT VALID.

Explanation: An override entry specified a value in the BYPASS_FLAG field that is not valid. The valid values are Y, N, or blank. Blank is equivalent to N.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9064. Processing ends.

User Response: Specify Y, N, or blank for the BYPASS_FLAG field. Rerun the conversion program.

CSFV0382 ADD/CHANGE SPECIFICATIONS IGNORED ON OVERRIDE ENTRY. BYPASS_FLAG VALUE IS "Y".

Explanation: An override entry specified a value of Y in the BYPASS_FLAG field. This caused the conversion program to bypass the CUSP/PCF CKDS entry. However, the override entry had non-blank values specified in one or more of the fields that are used to specify additions or changes to the new ICSF CKDS entry. The conversion program did not apply thes non-blank values because it pypassed the CUSP/PCF CKDS entry.

System Action: Processing continues.

User Response: If you do not want the conversion program to bypass the CUSP/PCF CKDS entry, change the value in the BYPASS_FLAG field to N or blank. It may require the use of a global override entry to bypass all entries on the CUSP/PCF CKDS. Rerun the conversion program.

CSFV0396

UNIQUE label type FOUND ON INPUT **ICSF/MVS CKDS. CANNOT CONVERT** label RECORD FROM PCF/CUSP SOURCE.

Explanation: The conversion program detected a duplicate label that is not valid. The CUSP/PCF label was the same as a label on the target ICSF CKDS and processing would have resulted in more than one key on the target CKDS with the same label. This condition is not valid for keys that require unique labels (DATA, DATAXLAT, MAC, MACVER, or NULL keys).

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9096. Processing ends.

User Response: Resolve the label conflict in the input, merged, and target CKDS, or update the conversion override file to bypass conversion of *label* from the input PCF/CUSP CKDS. Then rerun the conversion program.

CSFV0402

label.qualifier type CREATED FROM A **RELEASE 1 RECORD WITH A** NON-ZERO QUALIFIER FIELD.

Explanation: The ICSF/MVS Version 1 Release 1 conversion program encountered a Release 1 key record with a nonzero qualifier field. The resulting converted key label includes the qualifier information that is preceded by a period.

System Action: None.

User Response: Depending on your installation, you may need to rename the new key or change applications that access the new key.

CSFV0506

CONVERSION INSTALLATION EXIT PREPROCESSING FAILED. RETURN **CODE** = retcode.

Explanation: The pre-processing installation exit has failed with a return code of retcode.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9068. Processing ends.

System Programmer Response: Follow local procedures for correcting errors that are found in the installation exit. Rerun the conversion process.

CSFV0516

CONVERSION INSTALLATION EXIT POSTPROCESSING FAILED. RETURN **CODE** = retcode.

Explanation: The post-processing installation exit has failed with a return code of retcode.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9072. Processing ends.

System Programmer Response: Follow local procedures for correcting errors that are found in the installation exit. Rerun the conversion process.

CSFV0522

CONVERSION INSTALLATION EXIT ATTEMPT TO CHANGE LABEL OR TYPE IGNORED.

Explanation: The record processing installation exit has attempted to change the LABEL or TYPE key entry, which is not allowed. The conversion program ignored the attempt.

System Action: Processing continues.

System Programmer Response: Follow local procedures for correcting errors that are found in the installation exit. Rerun the conversion program.

CSFV0546 exit-id INSTALLATION EXIT routine
REQUESTED TERMINATION OF
PROCESSING.

Explanation: The *exit-id* installation exit and the *routine* load module requested that the conversion program be ended.

System Action: The system issues message CSFV0026 with a return code of 12 and a reason code of 9088. Processing ends.

System Programmer Response: Follow local procedures for the installation exit termination request.

Chapter 11. CSFYnnnn Messages (I/O Errors)

CONTROL BLOCK VALIDATION

DCB and I/O buffers require. Increase

Logical record length for the data set

is incorrect. If pre-allocated, redefine

SYNADAF. A message is printed, but some information may be missing.

with the correct record length. If defined on a DD statement, correct

An error occurred while running

Asterisks represent the missing

An error occurred while running

SYNADRLS. No action is necessary.

the region size.

the LRECL value.

information.

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108

112

CCEV0016

This section describes messages that the ICSF Input/Output (I/O) routine issues.

the job ends. Register 13 will not point

Redefine the data set with the correct

An error occurred running an AMS

An error occurred opening the file.

defines the correct data set.

An error occurred attempting to

An error occurred attempting to

change the RPL for keyed access.

change the RPL for update access.

43

Ensure that the JCL DD statement for the data set is present and that it

record length.

MODCB macro.

E R	ONTROL BLOCK VALIDATION RROR. RETURN CODE = retcode, EASON CODE = rsncode.		to the save area the SYNADAF macro provided, resulting in an improper chaining of the save areas. Further	
incorrect. The IC	The input/output control block (IOCB) is DCB is an ICSF internal control block. es the return code, and <i>rsncode</i> ason code.	116	errors may result. An error occurred opening the data set. Ensure that the JCL DD statement for the data set is present	
System Action	: Processing ends.		and that it defines the correct data	
User Response	: Contact your system programmer.		set.	
System Progra Support Center.	mmer Response: Contact the IBM	For VSAM file Return code:	~-	
		Reason Code	Meaning	
d	RROR OCCURRED PROCESSING DD dname. RETURN CODE = retcode, EASON CODE = rsncode.	196	An error occurred closing the data set. Run an IDCAMS verify to reset the data set's catalog pointers.	
Explanation: <i>Ddname</i> indicates the DD statement for the data set that was being processed when the error		Return code: 12		
	ode indicates the return code, and es the reason code. See the list of return	Reason Code	Meaning	
and reason cod error.	and reason codes below to determine the cause of the		Could not acquire the storage the I/O buffer requires. Increase the region size.	
For QSAM file Return code:		164	Could not generate the exit list.	
Reason Code	Meaning	168	Could not generate the access control block (ACB).	
128	An error occurred closing the data set. No action is necessary. The data set will close when the job ends.	172	An error occurred running an AMS SHOWCB macro.	
Return code:	12	176	Could not generate the request parameter list (RPL).	
Reason Code	Meaning	180	The supplied logical record length	
100	Could not acquire the storage that the DCB and I/O buffers require. Increase		does not agree with the record length that is defined for the data set.	

The macro releases the space when

184

192

200

204

208 An error occurred attempting to

change the RPL for non-update

access.

316 A VSAM logical error occurred.

> Message CSFY0076 shows the ddname for the data set and the VSAM feedback code. For more information, see MVS/DFP Managing

VSAM Data Sets.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the return and reason codes. If you cannot resolve the problem, contact the IBM Support Center.

CSFY0036 Synad message (for VSAM or non-VSAM file).

Explanation: A physical error occurred while processing a VSAM or QSAM file.

For a QSAM file, the format and explanation of the message is in the SYNADAF macro instruction description in the MVS/ESA Data Administration: Macro Instruction Reference.

For a VSAM file, the format and explanation of the message is in the Physical-Error Message Format figure in the MVS/DFP Managing VSAM Data Sets.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: See the appropriate manual for the explanation of the message. Correct the problem and rerun the job. If you cannot resolve the problem, contact the IBM Support Center.

CSFY0046 ABEND OCCURRED. PSW = psw, **COMPLETION CODE** = code.

Explanation: ICSF I/O processing ended abnormally. The psw indicates the PSW at the time the abnormal ending occurred, and the code indicates the system completion code.

System Action: Processing ends.

User Response: Contact your system programmer.

System Programmer Response: Respond to the problem that is identified by the system completion code. If you cannot resolve the problem, contact the IBM Support Center.

I/O ROUTINE UNABLE TO ESTABLISH CSFY0056 AN ESTAE.

Explanation: The ICSF I/O routine could not establish an ESTAE environment.

System Action: Processing ends.

User Response: Attempt to run the job again. If it still fails, contact your system programmer.

System Programmer Response: Contact the IBM

Support Center.

CSFY0066 I/O ROUTINE UNABLE TO LOAD **MODULE** routine.

Explanation: The I/O routine could not load module routine, which is either CSFIO002 or CSFIO003.

System Action: Processing ends.

User Response: Ensure that the load module is in a library that the link list specifies. Alternatively, if the load module is present in the JCL, ensure that load module is in the data set that is specified by a JOBLIB or STEPLIB DD statement. If you cannot resolve the problem, contact your system programmer.

System Programmer Response: If the load module is not available, contact the IBM Support Center.

CSFY0076 VSAM ERROR OCCURRED PROCESSING DD ddname. VSAM **FEEDBACK CODE** = *fdbkcode*.

Explanation: A VSAM logical error occurred while processing the data set that is specified by the ddname DD statement. The VSAM feedback code fdbkcode indicates which error occurred.

System Action: Processing ends.

User Response: Check the VSAM feedback code as documented in the MVS/DFP Managing VSAM Data Sets. If you cannot correct the error, contact your system programmer.

System Programmer Response: If you cannot resolve the error, contact the IBM Support Center.

Chapter 12. ICSF Routing and Descriptor Codes

This section describes the routing and descriptor codes that IBM assigns to messages issued by ICSF. Routing and descriptor codes are specified in the ROUTCDE and DESC parameters, respectively, of the WTO macro instruction.

· Routing code

The routing code identifies where a message will be displayed. For ICSF mainline (address space) messages, the routing code is 1 or 9. A routing code of 1 indicates that there was a change in the system status. It demands action by the master console operator. A routing code of 9 indicates that the message gives information about system security checking.

Descriptor code

The descriptor code identifies the significance of messages. For ICSF mainline (address space) messages, the descriptor code is always 4, which indicates the status of a system task or of a hardware unit.

Table 1 lists the message IDs in alphanumeric order and their routing and descriptor codes. If a message ID does **not** have a routing and descriptor code, the table lists the name of the data set or file where the message appears.

The possible data sets are CSFDIAG, CSFLIST, and CSFVRPT. The component trace messages, CSFInnnn, are issued only in an interactive problem control system (IPCS) environment. These messages are routed to the IPCS print file, IPCSPRNT.

Table 1. ICSF Routing and Descriptor Codes

Message ID	Descriptor Code	Routing Code	Data Set or File
CSFB0016			CSFDIAG
CSFB0026			CSFDIAG
CSFB0026			CSFDIAG
CSFB0034			CSFDIAG
CSFB0044			CSFDIAG
CSFB0056			CSFDIAG
CSFC0016			CSFDIAG or CSFVRPT
CSFC0026			CSFDIAG or CSFVRPT
CSFC0036			CSFDIAG or CSFVRPT
CSFC0046			CSFDIAG or CSFVRPT
CSFC0053			CSFDIAG or CSFVRPT
CSFC0064			CSFDIAG or CSFVRPT
CSFC0072			CSFDIAG or CSFVRPT
CSFC0086			CSFDIAG or CSFVRPT
CSFC0096			CSFDIAG or CSFVRPT
CSFC0106			CSFDIAG or CSFVRPT
CSFC0116			CSFDIAG or CSFVRPT
CSFC0124			CSFDIAG or CSFVRPT
CSFC0136			CSFDIAG or CSFVRPT
CSFC0142			CSFDIAG or CSFVRPT
CSFC0156			CSFDIAG or CSFVRPT
CSFC0166			CSFDIAG or CSFVRPT
CSFC0172			CSFDIAG or CSFVRPT
CSFC0186			CSFDIAG or CSFVRPT
CSFC0196			CSFDIAG or CSFVRPT
CSFC0206			CSFDIAG or CSFVRPT

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Table 1. ICSF Routing and Descriptor Codes (continued)

Message ID	Descriptor Code	Routing Code	Data Set or File
CSFC0236			CSFDIAG or CSFVRPT
CSFC0254			CSFDIAG or CSFVRPT
CSFC0266			CSFDIAG or CSFVRPT
CSFC0306			CSFVRPT
CSFE001I			CSFLIST
CSFE002A			CSFLIST
			33. 2.3 .
CSFG0002			CSFDIAG
CSFG0014			CSFDIAG
CSFG0024			CSFDIAG
CSFG0035			CSFDIAG
CSFG0056			CSFDIAG
CSFG0064			CSFDIAG
CSFG0074			CSFDIAG
CSFG0084			CSFDIAG
CSFG0094			CSFDIAG
CSFG0104			CSFDIAG
CSFG0124			CSFDIAG
CSFG0144		 	CSFDIAG
CSFG0144 CSFG0164			CSFDIAG
			CSFDIAG
CSFG0174			CSFDIAG
CSFG0204			
CSFG0224			CSFDIAG
CSFG0272			CSFDIAG
CSFG0284			CSFDIAG
CSFG0293			CSFDIAG
CSFG0302			CSFDIAG
CSFG0313			CSFDIAG
CSFG0321			CSFDIAG
CSFG0385			CSFDIAG
CSFG0395			CSFDIAG
CSFG0402			CSFDIAG
CSFG0414			CSFDIAG
CSFG0425			CSFDIAG
CSFG0435			CSFDIAG
CSFG0445			CSFDIAG
CSFG0455			CSFDIAG
CSFG0465			CSFDIAG
CSFG0474			CSFDIAG
CSFG0484			CSFDIAG
CSFG0494			CSFDIAG
CSFG0504			CSFDIAG
CSFG0514			CSFDIAG
CSFG0524			CSFDIAG
CSFG0534			CSFDIAG
CSFG0544			CSFDIAG
CSFG0554			CSFDIAG
CSFG0575			CSFDIAG
CSFG0585			CSFDIAG
CSFG0595			CSFDIAG
CSFG0604			CSFDIAG
CSFG0614			CSFDIAG
CSFG0624			CSFDIAG

	Table 1. ICSF Ro	uting and Descriptor Cod	es (continued)	
	Message ID	Descriptor Code	Routing Code	Data Set or File
	CSFG0643			CSFDIAG
	CSFG0654			CSFDIAG
	CSFG0664			CSFDIAG
	CSFG0674		 	CSFDIAG
	CSFG0684			CSFDIAG
	CSFG0704			CSFDIAG
	CSFG0715			CSFDIAG
	CSFI001E			IPCSPRNT
	CSFI002E			IPCSPRNT
	CSFI003E			IPCSPRNT
	CSFI004E			IPCSPRNT
	CSFM001I	4	1,9	
	CSFM002E	4	1,9	
	CSFM003A	4	1,9	
	CSFM004A	4		
			1,9	
	CSFM005A	4	1,9	
	CSFM006A	4	1,9	
	CSFM008I	4	1,9	
	CSFM009I	4	1,9	
Į.	CSFM010E	4	1,9	
1	CSFM011I	4	1,9	
	CSFM020I	4	1,9	
	CSFM021I	4	1,9	
	CSFM100E	4	1,9	
	CSFM105E	4	1,9	
	CSFM106A	4	1,9	
	CSFM107E	4	1,9	
1	CSFM113E	4	1,9	
	CSFM114E	4	1,9	
	CSFM115E	4	1,9	
I	CSFM116I	4	1,9	
I	CSFM117I	4	1,9	
1	CSFM118E	4	1,9	
Ì	CSFM119E	4	1,9	
•	CSFM120E	4	1,9	
	CSFM200I			CSFLIST
	CSFM201A			CSFLIST
I	CSFM224I	4	1,9	
•	CSFM300I	4	9	
	CSFM400I	4		
			1,9	
	CSFM401I	4	1,9	
	CSFM402I			CSFLIST
	CSFM403I	4	1,9	
	CSFM404A	4	1,9	
	CSFM405A	4	1,9	
	CSFM406A	4	1,9	
	CSFM407A	4	1,9	
1	CSFM408A	4	1,9	
	CSFM409E	4	1,9	
	CSFM410E	4	1,9	
	CSFM411I	4	1,9	
	CSFM412I	4	1,9	
			•	

Table 1. ICSF Routing and Descriptor Codes (continued)

Table 1. ICSF Ro	uting and Descriptor Code		
Message ID	Descriptor Code	Routing Code	Data Set or File
CSFM413E	4	1,9	
CSFM414I	4	1,9	
CSFM501E	4	1,9	
CSFM503E	4	1,9	
CSFM504E	4	1,9	
CSFM510E	4	1,9	
CSFM511E	4		
	4	1,9	
CSFM512E		1,9	
CSFM522E	4	1,9	
CSFO0016			CSFLIST
CSFO0022			CSFLIST
CSFO0036			CSFLIST
CSFO0046			CSFLIST
CSFO0056			CSFLIST
CSFO0066			CSFLIST
CSFO0076			CSFLIST
CSFO0086			CSFLIST
CSFO0096			CSFLIST
CSFO0106			CSFLIST
CSFO0116			CSFLIST
CSFO0126			CSFLIST
CSFO0136			CSFLIST
CSFO0146			CSFLIST
CSFO0156			CSFLIST
CSFO0166			CSFLIST
CSFO0176			CSFLIST
CSFO0186			CSFLIST
00.00.00			001 210 1
CSFP0016			CSFDIAG
0011 0010			OOI DIAG
CSFV0012			CSFVRPT
CSFV0026			CSFVRPT
CSFV0036			CSFVRPT
CSFV0046			CSFVRPT
CSFV0056			CSFVRPT
CSFV0152			CSFVRPT
CSFV0172			CSFVRPT
CSFV0182			CSFVRPT
CSFV0192			CSFVRPT
CSFV0212			CSFVRPT
CSFV0222			CSFVRPT
CSFV0232			CSFVRPT
CSFV0256			CSFVRPT
CSFV0266			CSFVRPT
CSFV0276			CSFVRPT
CSFV0286			CSFVRPT
CSFV0306			CSFVRPT
CSFV0316			CSFVRPT
CSFV0326			CSFVRPT
CSFV0346			CSFVRPT
CSFV0356			CSFVRPT
CSFV0366			CSFVRPT
CSFV0376			CSFVRPT
201 10070			JO: VIII 1

Table 1. ICSF Routing and Descriptor Codes (continued)

Message ID	Descriptor Code	Routing Code	Data Set or File
CSFV0382			CSFVRPT
CSFV0506			CSFVRPT
CSFV0522			CSFVRPT
CSFV0546			CSFVRPT
CSFY0016			CSFDIAG or CSFVRPT
CSFY0026			CSFDIAG or CSFVRPT
CSFY0036			CSFDIAG or CSFVRPT
CSFY0046			CSFDIAG or CSFVRPT
CSFY0056			CSFDIAG or CSFVRPT
CSFY0066			CSFDIAG or CSFVRPT
CSFY0076			CSFDIAG or CSFVRPT

Appendix. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- · Operate specific or equivalent features using only the keyboard
- · Customize display attributes such as color, contrast, and font size

Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to z/OS TSO/E Primer, z/OS TSO/E User's Guide, and z/OS ISPF User's Guide Volume I for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

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